A

A REVISED, ANNOTATED LIST

of the

PLANTS

of

SASKATCHEWAN

by

The Late W. P. FRASER *and* R. C. RUSSELL

From T. T. ARNASON
University of Saskatchewan

Published by the
UNIVERSITY OF SASKATCHEWAN
SASKATOON, SASK.
1944

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FOREWORD

THE manuscript of this revision of "The Plants of Saskatchewan" was nearing completion when Professor Fraser died in November, 1943, and has been finished by his collaborator and former pupil, Dr. R. C. Russell. The new list contains many additions and represents long years of devoted and painstaking work. It is felt that many of those who will use it would wish to have a brief account of Dr. Fraser's life and work.

He was born in 1867, in Pictou County, Nova Scotia. Through the death of his father the responsibility of a family was thrust upon him at a very early age and made the attainment of an education a severe struggle. Eventually he graduated from Dalhousie and Cornell Universities. He taught for some time in Pictou Academy, and in 1912 was called to MacDonald College, McGill University. Following the disastrous outbreak of wheat rust in 1916 he was appointed by the Dominion Department of Agriculture to investigate that problem, at first on a part-time basis, and in 1919 as Director of a newly established Laboratory of Plant Pathology located at the University of Saskatchewan. At the same time he served as lecturer in Biology in the University. This arrangement continued until 1925 when he severed his connection with the Department of Agriculture and became Professor of Biology. In 1937 he retired with the title of Professor Emeritus, but continued his scholarly activities energetically until a few days before his death.

Most of Dr. Fraser's scientific work was on the fungi which cause plant diseases, particularly the rusts. A long series of studies on the life histories of rusts which attack various plants, both cultivated and wild, was carried out in Nova Scotia and at MacDonald College and brought him recognition as the foremost Canadian worker in that field. He was therefore the logical choice of the Department of Agriculture to head its work on diseases of crop plants on the prairies, particularly the dreaded stem rust of wheat. His contributions in this field built up a fund of knowledge which was essential for the ultimate solution of the rust problem. But he also made important contributions to the study of other diseases.

Although he is best known to the scientific world for his work on pathogenic fungi, he was always fond of the identification and classification of the higher plants. He was born with all the instincts of a naturalist, and made himself thoroughly acquainted with the plants of his native Nova Scotia and then of Quebec. When he came west all the time which could be spared from his major work in plant pathology was devoted to the native flora of the prairies. After he joined the University Faculty and particularly after his retirement, more time became available for these studies, and he became a recognized authority on the prairie flora. The first edition of the present list of Saskatchewan plants was published in 1937 and contained many new records. Continued intensive studies and the help of many correspondents, friends, and disciples furnished numerous additional records which necessitated the present revised and enlarged edition. Until he could be satisfied that his list was complete, his characteristic desire for perfection prevented his writing the descriptive book-length flora of the prairies which he had planned. This is a matter of great regret to all those who are familiar with the need for such a volume and with his qualifications for meeting it.

In the course of this work Dr. Fraser built up for the University an excellent herbarium of prairie plants which, since his death, has been officially designated "The W. P. Fraser Herbarium". The use of this collection by specialists will be welcomed in the future as it has been in the past. The University intends to continue the service in the identification of specimens which he carried on for numerous correspondents.

Professor Fraser was a very shy man who always put much too low a valuation on his own achievements. His tastes were simple, his character rigid, his thoughtfulness of others unfailing. His contributions to the life of Western Canada have been great.

University of Saskatchewan
August 7, 1944.

W. P. THOMPSON,
Professor of Biology.

PREFACE

THIS revised edition of our original list is based chiefly on collections in the herbaria of the University of Saskatchewan and the Dominion Laboratory of Plant Pathology at Saskatoon. As Dr. Thompson has stated in the foreword, Professor Fraser worked untiringly on the collection and study of our native plants from his arrival in Saskatchewan in 1917 until his death, and during that time built up at the University a comparatively large herbarium of excellent material. The University herbarium also includes the collection of the late Professor T. N. Willing and contributions from a number of correspondents, some of whom should be specially mentioned:

Mr. A. J. Breitung sent in a large number of collections from McKague and the surrounding district. Most of the records from McKague, Dahlton, Wallwort, and Golburn are his, as are also a number of collections from other places in north-eastern Saskatchewan. These specimens were models of care and accuracy in collecting, preserving, and recording. Several hundred specimens were received from him which added a number of new species to the University herbarium and a few species not previously recorded from Saskatchewan.

A large and very excellent collection of named plants was received from the herbarium of the Dominion Experimental Station at Swift Current. This herbarium has been assembled by Dr. S. E. Clarke, Agrostologist, and his associates Messrs. J. A. Campbell, E. W. Tisdale, and J. B. Campbell, of Swift Current; and Mr. J. L. Bolton of the Dominion Forage Crops Laboratory at Saskatoon, and formerly of Swift Current. At present, it contains some 1,100 species and is particularly strong in material from the southern parts of the province. Most of the records from southwestern Saskatchewan and a considerable proportion of those from the southern and southeastern parts are based on material received from the Swift Current herbarium. Contributions from this source included many species that were new to our herbaria and a few that had not been reported previously from Saskatchewan in the manuals. This material was especially valuable as the area in which these collections were made seldom has been visited by the authors.

The herbarium of the Dominion Laboratory of Plant Pathology was begun when the laboratory was established in 1919. At that time and until the year 1925, the senior author was in charge of this laboratory. The junior author has been in charge of this herbarium since 1925. All members of the laboratory staff have contributed more or less toward building it up. Dr. B. J. Sallans and Mr. R. J. Ledingham have made numerous collections, more particularly in southeastern Saskatchewan while stationed at the sub-laboratory at Indian Head. Fourteen hundred duplicate collections have been sent to the Division of Botany and Plant Pathology at Ottawa, and a large number to the Department of Botany in the University of Toronto, so that representatives of a great many of our species may be seen by visiting the herbaria of those institutions. Mr. E. W. Hart of the Division of Botany at Ottawa has identified many of our goldenrods; Dr. H. A. Senn has determined many of our grasses; and Mr. Herbert Groh has assisted us with the determination of certain weeds. Numerous other contributors to both of our herbaria have received acknowledgment in the body of the list for sending in the less common plants.

The junior author wishes to acknowledge with gratitude the assistance of several botanists in completing the revision of the list. Dr. Geo. F. Ledingham of Moose Jaw, who, with Dr. Fraser, recently published a complete annotated list of the species of Carex found in Saskatchewan, very kindly checked the list of Carex species included herein. Mr. J. L. Bolton assisted by checking the part of the list dealing with the grasses as well as offering valuable suggestions regarding other species. Dr. H. A. Senn has helped greatly by examining the whole list before it was submitted for publication.

Considerable time and energy was spent on typing the first and the final copy of the manuscript, by Miss S. M. Anderson, of the staff of the Dominion Laboratory of Plant Pathology. Grateful acknowledgment is made of her neat and accurate work.

Rydberg's "Flora of the Prairies and Plains of Central North America" was used in naming the plants. His "Flora of the Rocky Mountains and Adjacent Plains" was also consulted. As these are the only complete manuals covering Saskatchewan, it seemed best to follow the system of naming plants used in the former manual. Exceptions were made in the genus Carex of the sedges, where Mackenzie's treatment was followed (North American Flora, Vol. 18: Parts 1-7). In the grasses, Hitchcock's "Manual of the Grasses of the United States" was used. At the same time, sufficient synonyms were included to be of considerable assistance to those who are familiar with Gray's Manual and Fernald's work.

In the case of certain groups which have received special study by some of our present-day botanists, we have sent many of our collections to them and have received considerable help in arriving at a proper determination of some of the species and

varieties. Where this is the case, mention is made of the fact in the list at the ends of the genera concerned.

As there is not general agreement among botanists on the common names of plants, there was difficulty in selecting these. Britton and Brown's "Illustrated Flora of the Northern United States and Canada" was found of some assistance. In many cases, the authors were forced to decide the most commonly used or appropriate names. This part of the list will doubtless meet with criticism and need revision.

To make the list more complete, species reported in Saskatchewan by certain manuals and not at present in our herbaria are followed by "(Sask.)". Those species likely to occur, from the distribution given in the manuals, are followed by "Range." Many which Raup has reported from the region around Lake Athabaska are included as well.

The junior author will be glad if any errors or omissions of plants that occur in the province are reported and accompanied, in the case of omissions, by specimens with place and date of collection.

SUMMARY OF ABBREVIATIONS

(Sask.)	Recorded from Saskatchewan in certain manuals, but not collected.
Range	Not reported from Saskatchewan in the manuals but, from the distribution given, likely to occur.
(Macoun) and (J. M. Macoun)	From "Catalogue of Canadian Plants" by John Macoun.
Athabaska Lake region	Taken from Dr. H. M. Raup's publications.

LIST *of the* FLOWERING PLANTS FERNS *and* FERN ALLIES *of* SASKATCHEWAN

The Late W. P. FRASER *and* R. C. RUSSELL

PTERIDOPHYTA. Ferns and Fern Allies.

OPHIOGLOSSACEAE. Adder's Tongue Family.

Botrychium Lunaria (L.) Sw. Moon-fern. Found occasionally in wooded or semi-wooded districts.

—**multifidum** (Gmel.) Rupr.—*B. silaifolium* Presl.—*B. ternatum* (Thunb.) Sw. var. *intermedium* D. C. Eat. Thick-leaved Grape-fern. Big River, McKague, Saskatoon.

—**virginianum** (L.) Sw. var. *europeum* Angstr. Virginia Grape-fern. Big River, Bjorkdale, Cypress Hills, Emma Lake, McKague, Pike Lake, Usherville, Waskesiu Lake.

POLYPODIACEAE. Fern Family.

Asplenium viride Huds. Green Spleenwort. (Sask.)

Cryptogramma acrostichoides R. Br.—*C. crispa* (L.) R. Br. var. *acrostichoides* (R.Br.) C. B. Clarke American Rock-brake. Athabaska Lake (E. A. Hart); Clut Lake (R. S. Campbell); Cornwall Bay (Raup).

—**stelleri** (Gmel.) Prantl—*Pellaea gracilis* Hook. Slender Cliff-brake. Specimen examined from Porter Lake.

Dryopteris cristata (L.) A. Gray—*Aspidium cristatum* (L.) Sw. Crested Shield-fern. Crooked River, Golburn, Speddington, Tisdale; White Fox (G. F. Ledingham).

—**fragrans** (L.) Schott—*A. fragrans* (L.) Sw. Fragrant Shield-fern. Athabaska Lake (E. A. Hart); Clut Lake (R. S. Campbell).

—**marginalis** L.—*A. marginale* (L.) Sw. Margin-fruited Shield-fern. (Sask.)

—**spinulosa** (Muell.) Kuntze—*A. spinulosum* (Muell.) Sw. Spinulose Shield-fern. Bjorkdale (John Laycock); Golburn, Madge Lake, McKague, Peesane, Waskesiu Lake.

—**spp.** Nieuwland (American Midland Naturalist, 1:226. 1910.) places the above four species in the genus *Thelypteris*.

Filix fragilis (L.) Gilib.—*Cystopteris fragilis* (L.) Bernh. Fragile Fern. Athabaska Lake (E. A. Hart); Cypress Hills, McKague, Saskatoon, Saskatchewan Landing, Swift Current, Waskesiu Lake.

Onoclea sensibilis L. Sensitive Fern. (Sask.)

Phegopteris Dryopteris (L.) Fee—*Thelypteris Dryopteris* (L.) Slosson—*Dryopteris disjuncta* (Rupr.) Morton Oak Fern. Athabaska Lake (R. S. Campbell); Crooked River; Speddington (John Laycock); Waskesiu Lake. Sulphide Lake, Lac La Ronge district (Reported by Dr. H. A. Senn).

—**polypodioides** (L.) Fee—*T. Phegopteris* (L.) Slosson—*D. Phegopteris* (L.) C. Chr. Beech Fern. Athabaska Lake (R. S. Campbell); Clut Lake, Porter Lake.

—**Robertiana** (Hoffm.) A. Br.—*T. Robertiana* (Hoffm.) Slosson—*D. Robertiana* (Hoffm.) C. Chr. Scented Oak Fern. Athabaska Lake (E. A. Hart.)

Polypodium virginianum L.—*P. vulgare* Am. Auth. Common Polypody. Athabaska Lake (E. A. Hart); Clut Lake (R. S. Campbell).

Pteretis nodulosa (Michx.) Nieuwl.—*Onoclea Struthiopteris* (L.) Hoffm. —*Matteuccia Struthiopteris* (L.) Todaro Ostrich Fern. Madge Lake, McKague, Qu'Appelle, Sutherland, Tisdale, Waskesiu Lake. This is the largest of our ferns and is sometimes cultivated.

Woodsia ilvensis (L.) R. Br. Rusty Woodsia. Athabaska Lake (E. A. Hart); Clut Lake.

—**oregana** D. C. Eat. Oregon Woodsia. Athabaska Lake region.

—**scopulina** D. C. Eat. Mountain Woodsia. Athabaska Lake (E. A. Hart); Porter Lake.

MARSILEACEAE. Marsilea Family.

Marsilea vestita Hook. and Grev. Hairy Pepperwort. Glen Kerr, Juniata, Trossachs; Wiseton (Mrs. Margaret Dickson); Yeomans. Found growing in slough bottoms.

EQUISETACEAE. Horsetail Family.

Equisetum affine Engelm.—*E. hyemale* L. var. *affine* (Engelm.) A. A. Eat. Common Scouring-rush. Common in spots where the subsoil is moist. Athabaska Lake region.

—**arvense** L. Common Horsetail. Common on poorly drained soil in wooded districts.

—**fluviatile** L. Swamp Horsetail. Athabaska Lake region; Macdowall, McKague, Prince Albert Nat. Park, Speddington.

—**intermedium** (A. A. Eat.) Rydb.—*E. hyemale* L. var. *intermedium* A. A. Eat. Loose-sheathed Scouring-rush. Fairly common.

—**kansanum** Schaffn. Kansas Horsetail. Sutherland (determined by C. A. Weatherby).

—**palustre** L.—*E. palustre* L. var. *americanum* Victorin Marsh Horsetail. Fairly common on damp soil.

—**pratense** Ehrh. Meadow Horsetail. McKague.

—**scirpoides** Michx. Dwarf Scouring-rush. Fairly common in wooded districts. Athabaska Lake region.

—**sylvaticum** L.—*E. sylvaticum* L. var. *pauciramosum* Milde Woodland Horsetail. Common in the north.

—**variegatum** Schleich. Variegated Horsetail. McKague.

LYCOPODIACEAE. Club-Moss Family.

Lycopodium annotinum L. Stiff Club-moss. Pre Ste. Marie, Waskesiu Lake.

—**annotinum** L. var. *pungens* Desv. Athabaska Lake (R. S. Campbell).

—**annotinum** L. var. *acrifolium* Fern. Athabaska Lake region.

—**clavatum** L. Running Club-moss. Meadow Lake.

—**complanatum** L. Trailing Club-moss. Common in northern part of the province.

—**obscurum** L. Ground Pine. McKague, Prince Albert, Waskesiu Lake.

—**obscurum** var. *dendroideum* (Michx.) D. C. Eaton Humboldt (W. J. Dover.)

—**sabinaefolium** Willd.—*L. sabinaefolium* Willd. var. *sitchense* (Rupr.) Fern. Athabaska Lake region.

SELAGINELLACEAE. Little Club-Moss Family.

Selaginella densa Rydb. Prairie Selaginella. Common on dry prairie.

—**rupestris** (L.) Spreng. Rock Selaginella. Hudson Bay Junction.

—**selaginoides** (L.) Link Prickly Selaginella. Pike Lake, Prince Albert. Found in bogs.

SPERMATOPHYTA. Seed Plants.

GYMNOSPERMAE. Gymnosperms.

PINACEAE. Pine Family.

Abies balsamea (L.) Mill. Balsam Fir. Big River, Emma Lake, Waskesiu Lake.

Larix laricina (Du Roi) Koch Tamarack. Common northward on swampy ground.

Picea glauca (Moench) Voss—*P. canadensis* (Mill.) B.S.P. White Spruce. Abundant in northern part of province, and found to some extent in the Cypress Hills.

—**Mariana** (Mill.) B.S.P. Black Spruce. Common on low ground in the north but not so abundant as *P. glauca*.

Pinus Banksiana Lamb. Jack Pine. Abundant in sandy soil northward.

—**Murrayana** Balf.—*P. contorta* Doug. var. *latifolia* Engelm. Lodge-pole Pine. Cypress Hills.

JUNIPERACEAE. Juniper Family.

Juniperus sibirica Burgsd.—*J. communis* (L). var. *montana* Ait. Low Juniper. Found at several places along the banks of the South Saskatchewan River; Chaplin, Great Sand Hills.

Sabina horizontalis (Moench) Rydb.—*Juniperus horizontalis* Moench Creeping Juniper. Very common on dry banks and sandy knolls.

ANGIOSPERMAE. Angiosperms.

MONOCOTYLEDONES. Monocotyledons.

TYPHACEAE. Cat-tail Family.

Typha latifolia L. Cat-tail. Common in wet places where the water is not too saline.

SPARGANIACEAE. Bur-reed Family.

Sparganium angustifolium Michx. Narrow-leaved Bur-reed. Athabaska Lake (R. S. Campbell).

—**chlorocarpum** Rydb. var. *acaule* (Beeby) Fern.—*S. acaule* (Beeby) Rydb. Stemless Bur-reed. Canora, Burgis, Pike Lake.

—**eurycarpum** Engelm. Broad-fruited Bur-reed. Common along the shores of lakes and rivers.

—**fluctuans** (Morong) B. L. Robinson. Floating Bur-reed. Athabaska Lake region.

—**minimum** Fries Small Bur-reed. Athabaska Lake region; McKague.

—**multipedunculatum** (Morong) Rydb. Many-stalked Bur-reed. Common along the shores of lakes and rivers.

ZANNICHELLIACEAE. Pondweed Family.

Potamogeton alpinus Balbis var. *tenuifolius* (Raf.) Ogden Northern Pondweed. Athabaska Lake region; Prince Albert (G. F. Ledingham).

—**alpinus** Balbis var. *subellipticus* (Fern.) Ogden Lake Athabaska region.

—**amplifolius** Tuckerm. Large-leaved Pondweed. Waskesiu Lake (O. C. Furniss).

—**filiformis** Pers. var. *borealis* (Raf.) St. John Filiform Pondweed. Fairly common in the lakes northward.

—**foliosus** Raf. var. *macellus* Fern. Leafy Pondweed. Spur Creek, Crane Lake (Fernald).

—**Friesii** Rupr. Fries' Pondweed. Methye Portage (J. M. Macoun).

—**gramineus** L. var. *typicus*. Grassy-leaved Pondweed. Abundant in fresh water pools throughout the prairie region (Macoun). Athabaska Lake region; Battleford.

—**gramineus** L. var. *maximus* Morong—*P. heterophyllus* Schreb. Various-leaved Pondweed. Axis Lake near Athabaska Lake (R. S. Campbell); Saskatoon, Yorkton.

—**natans** L. Common Floating Pondweed. Prince Albert Nat. Park (O.C. Furniss).

—**obtusifolius** Mert. and Koch Blunt-leaved Pondweed. Athabaska Lake region.

—**panormitanus** Biv. var. *minor* Biv. Spur Creek (Macoun).

—**panormitanus** Biv. var. *major* G. Fisch. Fort Carleton (Macoun).

—**pectinatus** L. Fennel-leaved Pondweed. Common in lakes and sloughs throughout the prairie region.

—**praelongus** Wulf. White-stemmed Pondweed. Athabaska Lake region; Pike Lake.

—**pusillus** L. var. *mucronatus* (Fieber) Graebn. Small Pondweed. Athabaska Lake region.

—**Richardsonii** (Benn.) Rydb. Richardson's Pondweed. Common in ponds and lakes throughout the prairie region. Also reported by Raup as common around Athabaska Lake.

—**strictifolius** Benn. Narrow-leaved Pondweed. Cumberland House (Drummond).

—**strictifolius** Benn. var. *rutiloides* Fern. Pike Lake, Prince Albert Nat. Park.

—**vaginatus** Turcz. Sheathed Pondweed. Rather common in the larger sloughs and lakes.

—**zosteriformis** Fern. Zostera-like Pondweed. Barrier River, Pike Lake, Waskesiu Lake.

Ruppia maritima L. Ditch Grass. Johnstone Lake (J. Macoun); Lestock.

—**occidentalis** S. Wats. Western Ditch Grass. Common in lakes and sloughs throughout the prairie region.

Zannichellia palustris L. Horned Pondweed. Cadillac, Great Deer, Swift Current; South Saskatchewan River near Elbow, and numerous brackish ponds throughout the prairie region (Macoun).

SCHEUCHZERIACEAE. Arrow-grass Family.

Triglochin maritima L. Seaside Arrow-grass. Common in alkaline marshes.

—**palustris** L. Marsh Arrow-grass. Found occasionally in bogs.

Scheuchzeria palustris L. Scheuchzeria. Found in one bog in the Prince Albert Nat. Park.

ALISMACEAE. Water-plantain Family.

Alisma brevipes Greene Western Water-plantain. Common in sloughs.

—**Geyeri** Torr. Geyer's Water-plantain. Battleford, Fife Lake, Quill Lake, Swift Current.

—**subcordatum** Raf. American Water-plantain. Corinne, Glidden, Pike Lake.

Sagittaria cuneata Sheld. Arum-leaved Arrow-head. Common in borders of lakes and streams.

—**graminea** Michx. Grass-leaved Arrow-head. (Sask.)

—**latifolia** Willd. Broad-leaved Arrow-head. Pike Lake.

ELODEACEAE. Water-weed Family.

Anacharis canadensis (Michx.) Planch.—*Elodea canadensis* Michx.—*Philotria canadensis* (Michx.) Britt. Water-weed. Carnduff; Souris River in Saskatchewan (Macoun).

POACEAE. Grass Family.

Agropyron albicans Scribn. and Smith Awned Northern Wheat-grass. Beaver Flats, Humboldt, Sutherland, Swift Current.

—**Bakeri** E. Nels. Baker's Wheat-grass. Hodgeville.

—**cristatum** (L.) Gaertn. Crested Wheat-grass. Cultivated extensively and escaped from cultivation in many places.

—**dasystachyum** (Hook.) Scribn. Northern Wheat-grass. Common on dry prairie.

—**Griffithsii** Scribn. and Smith Griffith's Wheat-grass. Saskatoon.

—**pauciflorum** (Schwein.) Hitchc.—*A. tenerum* Vasey - *A. trachycaulum* (Link) Malte var. *typicum* Fern. Slender Wheat-grass. Common on natural meadows and cultivated to a considerable extent.

—**repens** (L.) Beauv. Eastern Couch-grass. Common as a troublesome weed. According to Hitchcock, *A. Leersianum* (Wulf.) Rydb. is an awned form.

—**repens** (L.) Beauv. var. *subulatum* (Schreb.) Reichenb. Saskatoon.

—**riparium** Scribn. and Smith Streambank Wheat-grass. Scott.

—**Smithii** Rydb. Western Couch-grass. Common on dry prairie. Sometimes persists as a weed in cultivated land.

—**spicatum** (Pursh) Scribn. and Smith Bluebunch Wheat-grass. Cypress Hills, Hodgeville, Scott, Sutherland, Swift Current, Vidora.

—**subsecundum** (Link) Hitchc.—*A. Richardsonii* (Trin.) Schrad.—*A. trachycaulum* (Link) Malte var. *unilaterale* (Cassidy) Malte—*A. trachycaulum* (Link) Malte var. *glaucum* (Peace and Moore) Malte. Awned Wheat-grass. Common on prairie and around woods.

—**triticeum** Gaertn. Cypress Hills, Maple Creek. Sparingly introduced from southern Russia (Hitchcock).

Agropyron spp. Those particularly interested in the genus, Agropyron, might consult Fernald, Rhodora 5:161-182 (1933), and Malte, Annual Rept. Nat. Museum of Can. pp. 27-55 (1930). A more recent study by Dr. H. A. Senn of Ottawa has not yet been published.

Agrostis borealis Hartm. Northern Bent-grass. Range.

—**exarata** Trin. Spike Redtop. Cypress Hills, Pike Lake, Swift Current.

—**palustris** Huds. Creeping Bent. Hudson Bay Junctn., Maple Creek, Swift Current, Tisdale.

—**scabra** Willd.—*A. hiemalis* (Walt.) B.S.P. (See Rhodora 35: 207-212. 1933.) Rough Hair-grass. Fairly common in wet meadows.

—**stolonifera** L.—*A. alba* Am. Auth. (See Rhodora 35: 317. 1933.) Creeping Bent. Common in wet places.

Alopecurus aequalis Sobol.—*A. geniculatus* var. *aristulatus* (Michx.) Torr. Short-awned Foxtail. Common in wet places.

—**geniculatus** L. Water Foxtail. Common in wet places.

Andropogon furcatus Muhl.—*A. provincialis* Lam. Big Blue-stem. Carlyle (J. Slykhuis); St. Hubert, Wapella, Yorkton.

—**scoparius** Michx.—*Schizachyrium scoparium* (Michx.) Nash. Little Blue-stem. Fairly common in open shallow bogs, on sandy soil.

Arctagrostic poaeoides Nash Arctic Agrostis. (Sask.)

Aristida longiseta Steud. var. *robusta* Merr. Red Three-awn. Val Marie.

Avena fatua L. Wild Oat. Common as a weed in grainfields.

—**Hookeri** Scribn. Hooker's Oat-grass. Common on prairie.

Beckmannia Syzigachne (Steud.) Fern.—*B. erucaeformis* Am. Auth. Slough Grass. Common in sloughs.

Bouteloua curtipendula (Michx.) Torr. Tall Grama. Hitchcock, Oxbow.
—**gracilis** (H.B.K.) Lag. Blue Grama. Common on dry prairie.
Bromus anomalus Rupr.—*B. Porteri* (Coult.) Nash Nodding Brome. Common around bluffs and on moist prairie.
—**breviaristatus** Buckl. Erect Brome. Cypress Hills.
—**carinatus** Hook. and Arn. var. *marginatus* (Nees) Hitchc. California Brome. Cypress Hills, Maple Creek.
—**ciliatus** L. Fringed Brome. Common around bluffs and in open woods.
—**inermis** Leyss. Awnless Brome. Cultivated extensively and escaped in many places.
—**japonicus Thunb.**—*B. patulus* Mert. and Koch Japanese Chess. Growing as a weed in a few districts.
—**Kalmii** A. Gray Kalm's Brome. Along C.P.R. and south of Battleford (Macoun).
—**latiglumis** (Shear) Hitchc.—*B. altissimus* Pursh Broad-glumed Brome. Common in shaded places.
—**Pumpellianua** Scribn. Northern Awnless Brome. Common in wooded areas. Athabaska Lake region.
—**purgans** L. Canada Brome. Pike Lake.
—**racemosus** L. Smooth Brome. Regina. Not established.
—**tectorum** L. Downy Chess. Piapot, Prince Albert, Swift Current.
Calamagrostis canadensis (Michx.) Beauv. Marsh Reed-grass. Common in wet places.
—**canadensis** var. *robusta* Vasey Athabasca Lake region.
—**canadensis** var. *scabra* (Presl.) Hitchc.—*C. Langsdorfii* (Link) Trin. Athabaska Lake region.
—**inexpansa** A. Gray—*C. americana* Scribn.—*C. elangata* (Kearney) Rydb. Northern Reed-grass. Common in saline places.
—**inexpansa** A. Gray var. *brevior* Stebbins. (See Rhodora 32:53-61. 1930). Athabaska Lake region.
—**montanensis** Scribn. Plains Reed-grass. Common on dry prairies in sandy soil.
—**neglecta** (Ehrh.) Gaertn.—*C. micrantha* Kearney Narrow Reed-grass. Athabaska Lake region; Cypress Hills, McKague, Swift Current.
—**purpurascens** R. Br. Purple Reed-grass. Athabaska Lake region.
—**rubescens** Buckl. Pine Grass. Range.
Calamovilfa longifolia (Hook.) Scribn. Sand-grass. Common in very sandy areas.
Catabrosa aquatica (L.) Beauv. Brook Grass. Fairly common in springy places.
Cinna latifolia (Trev.) Griseb. Slender Wood-grass. Fairly common in damp shaded places.
Dactylis glomerata L. Orchard Grass. Waskesiu Lake.
Danthonia californica Boland var. *americana* (Scribn.) Hitchc. California Oat-grass. Cypress Hills.
—**intermedia** Vasey. Wild Oat-grass. Cypress Hills, McKague, Saskatoon, Swift Current.
—**spicata** (L.) Beauv. Poverty Oat-grass. Cypress Hills (G. F. and R. J. Ledingham). Found in open pine woods.
—**thermalis** Scribn. Erect Oat-grass. Athabaska Lake region. (This is referred to as *D. thermale* Scribn. in Hitchcock).
—**unispicata** Munro One-spiked Oat-grass. Cypress Hills.
Deschampsia atropurpurea (Wahl.) Scheele Mountain Hair-grass. Range.
—**caespitosa** (L.) Beauv. Tufted Hair-grass. Common in moist soil.

Digitaria sanguinalis (L.) Scop.—*Syntherisma sanguinale* (L.) Dulac Large Crab-grass. Occurs occasionally in gardens. Does not seem to be established.

Distichlis stricta (Torr.) Rydb. Alkali Grass. Common in alkaline meadows.

Echinochloa Crus-galli (L.) Beauv. Barnyard Grass. Occasionally found growing in gardens.

Elymus arenarius L. var. *villosus* E. May Athabaska Lake region.

canadensis L.—*E. philadelphicus* L. Nodding Wild Rye. Common in sandy soil.

—**condensatus** Presl. Giant Wild Rye. Indian Head, Vanguard.

—**glaucus** Buckle Smooth Wild Rye. Cypress Hills.

—**hirtiflorus** Hitchc. Blue Wild Rye. McKague.

—**innovatus** Beal Hairy Wild Rye. Common northward in and around woods.

—**interruptus** Buckl.—*E. diversiglumis* Schribn. and Ball Variable-glumed Wild Rye. Lestock, Pike Lake, Prince Albert, Star City.

—**Mackenziana** Raup Mackenzie's Wild Rye. Sandy beaches and dunes in the Lake Athabaska region (Raup). (See Jour. Arn. Arbor. 17:205. 1936.)

—**Macounii** Vasey Macoun's Wild Rye. Fairly common in low spots.

—**virginicus** L.—*E. curvatus* Piper Virginia Wild Rye. Fairly common in moist shady places.

—**virginicus** var. *submuticus* Hook. Short-awned Virginia Wild Rye. Pike Lake, Saskatoon, Tisdale.

Festuca idahoensis Elmer Bluebunch Fescue. Cypress Hills, Saskatoon.

—**octoflora** Walt. Six-weeks Fescue. Piapot.

—**ovina** L. Sheep Fescue. Forms of *F. ovina* are common.

—**ovina** var. *brachyphylla* (Schult.) Piper Athabaska Lake region.

—**rubra** L. Red Fescue. Athabaska Lake region.

—**rubra** var. *arenaria* (Osbeck) Fries Athabaska Lake region.

—**saximontana** Rydb. According to Hitchcock, this is a form of *F. ovina*. Athabaska Lake region.

—**scabrella** Torr. Rough Fescue. Common on relatively moist prairie.

Fluminia festucacea (Willd.) Hitchc.—*Scolochloa festucacea* (Willd.) Link Spangle Top. Common in shallow sloughs and marshes.

Glyceria borealis (Nash) Batch.—*Panicularia borealis* Nash Northern Manna-grass. Widespread. Occurs in wet places and shallow water. Athabaska Lake region.

—**grandis** S. Wats.—*P. grandis* (S. Wats.) Nash Tall Manna-grass. Common in shallow sloughs and marshes.

—**pauciflora** Presl.—*P. pauciflora* (Presl.) Kuntze Small-flowered Manna-grass. Waskesiu Lake.

—**striata** (Lam.) Hitchc.—*G. nervata* (Willd.) Trin.—*P. nervata* (Willd.) Kuntze Fowl Manna-grass. Pike Lake, Saskatoon, Swift Current.

Hierochloë odorata (L.) Wahl.—*Torresia odorata* (L.) Hitchc. Sweet Grass. Common in meadows. A troublesome weed in some districts. Athabaska Lake region.

Hordeum jubatum L. Wild Barley. Common in meadows. Athabaska Lake region.

—**jubatum** L. var. *caespitosum* (Scribn.) Hitchc. Short-awned Wild Barley. Saskatoon, Saskatchewan Landing, Scout Lake, Sutherland.

Hystrix patula Moench. Bottle Brush. (Sask.)

Koeleria cristata (L.) Pers.—*K. gracilis* Pers.—*K. latifrons* (Domin) Rydb. June Grass. Common on prairie.

Leersia oryzoides (L.) Sw. Rice Cut-grass. (Sask.)

Lolium rigidum Guad.—*L. temulentum* L. var. *macrochaeton* A. Br. Darnel. A common weed in grain fields. The exact species has not been determined.

Muhlenbergia asperifolia (Nees and Mey.) Parodi—*Sporobolus asperifolius* Nees and Mey. Scratch Grass. Antelope, Swift Current; Yorkton (Mrs. I. M. Priestly).

—**cuspidata** (Torr.) Rydb. Prairie Muhlenbergia. Rather common on dry hillsides.

—**racemosa** (Michx.) B.S.P. Marsh Muhlenbergia. Rather common on low ground.

—**squarrosa** (Trin.) Rydb.—*M. Richardsonis* (Trin.) Rydb. Mat Muhlenbergia. Common on low ground in a number of districts.

Munroa squarrosa (Nutt.) Torr. False Buffalo-grass. (Sask.)

Oryzopsis asperifolia Michx. White-grained Mountain Rice. Common in bluffs.

—**canadensis** (Poir.) Torr. –*Stipa canadensis* Poir. Canadian Rice-grass. McKague.

—**hymenoides** (Roem. and Schult.) Ricker –*Eriocoma hymenoides* (R. and S.) Rydb. Indian Rice-grass. Fairly common where soil is very shady.

–**micrantha** (Trin. and Rupr.) Thurb. Little-seed Rice-grass. Bestville, Saskatchewan Landing.

—**pungens** (Torr.) Hitchc. Slender Mountain Rice. Athabaska Lake region; Macdowall, McKague, Prince Albert, Waskesiu Lake.

Panicum capillare L. Witch-grass. Elfros.

—**capillare** L. var. *occidentale* Rydb. -*P. barbipulvinatum* Nash Western Witch-grass. Indian Head. Probably not established.

—**depauperatum** Muhl. Starved Panic-grass. Moosomin.

—**virgatum** L. Switch-grass. Gainsborough.

Phalaris arundinacea L. Reed Canary-grass. Common in low places. The variety, *picta*, is sometimes grown for ornament in gardens, as its leaf-blades are striped with white. It is called Ribbon Grass.

—**canariensis** L. Canary Grass. Rosetown, Saskatoon.

Phleum alpinum L. Alpine Timothy. Cypress Hills.

—**pratense** L. Timothy. Common as a cultivated hay in north-eastern Saskatchewan and escaped in many places.

Phragmites communis Trin. Common Reed-grass. Common northward in marshes and borders of lakes.

Poa ampla Merr. Big Blue-grass. Gull Lake (F. W. Schroer).

—**annua** L. Annual Blue-grass. McKague, Montreal Lake.

—**arida** Vasey Plains Blue-grass. Fairly common on dry prairie.

—**Canbyi** (Scribn.) Piper Canby's Blue-grass. Rather common in the open plains areas.

—**compressa** L. Canada Blue-grass. Escaped from cultivation in some districts.

—**Cusickii** Vasey –*P. subaristata* Scribn. Early Blue-grass. Common on dry prairie.

—**glaucifolia** Scribn. and Will. Glaucous Blue-grass. Swift Current.

—**interior** Rydb. Inland Blue-grass. Fairly common on prairie and around meadows.

—**juncifolia** Scribn. Alkali Blue-grass. Cypress Hills, Masefield.

—**nervosa** (Hook.) Vasey Wheeler's Blue-grass. Cypress Hills, Donavon.

—**palustris** L.—*P. crocata* Michx. Fowl Blue-grass. Common in wet places.

—**pratensis** L. Kentucky Blue-grass. Common. Used extensively as a lawn grass.

—**rupicola** Nash Timberline Blue-grass. Cypress Hills.

—**scabrella** (Thurb.) Benth. Pine Blue-grass. Donavon, Kerrobert.

—**secunda** Presl. Sandberg's Blue-grass. Very common on dry prairie in the south-western part of the province.

Puccinellia Nuttalliana (Schultes) Hitchc. Nuttall's Alkali-grass. Common on saline flats.
—**tenuifolia** (Griseb.) Scribn. and Merr. Slender Alkali-grass. (Sask.)
Schedonnardus paniculatus (Nutt.) Trel. Tumble Grass. Eagle Creek and Johnstone Lake (Macoun); Moose Jaw (Connie Turner); Swift Current, Val Marie.
Schizachne purpurascens (Torr.) Swallen—*Avena striata* Michx. Purple Oat-grass. Common in bluffs.
Setaria lutescens (Weigel) Stuntz Yellow Foxtail. Regina. Uncommon.
—**viridis** (L.) Beauv. Green Foxtail. Becoming common as a weed.
Sitanion Hystrix (Nutt.) J. G. Smith Squirrel-tail. Val Marie.
Sorghastrum nutans (L.) Nash Indian Grass. (Sask.)
Spartina gracilis Trin. Alkali Cord-grass. Fairly common in saline meadows.
—**pectinata** Bosc. Prairie Cord-grass. Clearfield, Estevan, Gainsborough, Ralph, Red Jacket.
Sphenopholis intermedia Rydb. Slender Wedge-grass. Beaver Creek, Big River, Bjorkdale.
—**obtusata** (Michx.) Scribn. Prairie Wedge-grass. Widely distributed in Saskatchewan.
—**pallens** (Spreng.) Scribn. Tall Wedge-grass. McKague.
Sporobolus cryptandrus (Torr.) A. Gray Sand Dropseed. Fairly common in very sandy soil.
—**heterolepis** A. Gray Prairie Dropseed. Beaver Hills and Touchwood (Macoun); McKague.
Stipa columbiana Macoun Columbia Needle-grass. Cypress Hills, Swift Current.
—**columbiana** var. *Nelsoni* (Scribn.) Hitchc. (Sask.)
—**comata** Trin. and Rupr. Common Spear-grass. Very common on dry prairie.
—**comata** var. *intermedia* Scribn. and Tweedy —*S. Tweedyi* Scribn. Tweedy's Spear-grass. Saskatoon, St. Gregor.
—**Richardsonii** Link Richardson's Spear-grass. Cypress Hills, McKague.
—**spartea** Trin. Porcupine Grass. Fairly common on dry hills in south-eastern Saskatchewan. Also collected at Yorkton and Torch River.
—**spartea** var. *curtiseta* Hitchc. Mortlach, Saskatoon, St. Gregor, Swift Current.
—**viridula** Trin. Green Spear-grass. Common on dry prairie.
Trisetum spicatum (L.) Richt. Spike Trisetum. Cypress Hills.

CYPERACEAE. Sedge Family.

Carex adusta Boott Browned Sedge. Prince Albert Nat. Park, on sandy soil.
—**aenea** Fern. Hay Sedge. Cadillac, McKague, Prince Albert, Waskesiu Lake.
—**alopecoidea** Tucherm. Foxtail Sedge. McKague.
—**aquatilis** Wahl. Water Sedge. This is the most common sedge in northern Saskatchewan.
—**assiniboinensis** W. Boott Assiniboia Sedge. Lake Katepwa, Moose Jaw.
—**atherodes** Spreng. Awned Sedge. Common in borders of sloughs.
—**athrostachya** Olney Long-bracted Sedge. Dana, Langham, McKague, Prince Albert Nat. Park, Saskatoon.
—**atratiformis** Britt. Black Sedge. Rather rare. McKague, Prince Albert Nat. Park, Shipman, Tallpines.
—**aurea** Nutt. Golden Sedge. Rather common in wet places.
—**Backii** Boott—*C. durifolia* Bailey Back's Sedge. Found on river banks. Cypress Hills, Langham, McKague, Waskesiu Lake.
—**Bebbii** Olney Bebb's Sedge. Rather common in moist places throughout the settled area.
—**Bicknellii** Britt. Bicknell's Sedge. (Sask.)

—**brevior** (Dewey) Mack. Broad-fruited Sedge. Buttress, Elbow, Moose Jaw, Saskatoon, Swift Current, Tichfield.

—**brunnescens** (Pers.) Poir. var. *sphaerostachya* (Tuckerm.) Kukenth. Brownish Sedge. Not rare in northern part of province. Athabaska Lake region.

—**Buxbaumii** Wahl. Brown Sedge. Athabaska Lake region.

—**canescens** L. var. *subloliacea* Laestad. Hoary Sedge. Found occasionally in swamps and bogs in the northern wooded area. Athabaska Lake region.

—**capillaris** L. Hair-like Sedge. Found in wet shady places. Macdowall, McKague, Pike Lake, Waskesiu Lake.

—**capitata** L. Capitate Sedge. Methy River (J. M. Macoun).

—**chordorrhiza** L. Prostrate-stemmed Sedge. Athabaska Lake region; McKague, Waskesiu Lake.

—**concinna** R. Br. Low Northern Sedge. Cumberland House (Macoun); McKague, Macdowall, Prince Albert.

—**Crawfordii** Fern. Crawford's Sedge. Not common. Found occasionally in moist places and sandy shores. McKague, Meadow Lake, Montreal Lake.

—**cristatella** Britt. Little Crested Sedge. Pike Lake, Prince Albert Nat. Park, Waskesiu Lake.

—**cumulata** (Bailey) Mack. Clustered Sedge. (Sask.)

—**deflexa** Hornem. Deflexed Sedge. Athabaska Lake region.

—**Deweyana** Schw. Dewey's Sedge. Common in shady places.

—**diandra** Schrank Lesser Panicled Sedge. Widespread in the bogs of the province. Athabaska Lake region.

—**disperma** Dewey Soft-leaved Sedge. Common northwards in swamps and bogs. Athabaska Lake region.

—**Douglasii** Boott Douglas' Sedge. Found in low, fairly moist spots on the prairie in various parts of the southern half of the province.

—**eburnea** Boott Bristle-leaved Sedge. Elbow, Langham, Saskatoon.

—**Eleocharis** Bailey Involute-leaved Sedge. Common on dry prairies. Blooms early.

—**festivella** Mack. Dark-fruited Sedge. Cypress Hills, McKague, Melfort, Prince Albert Nat. Park, Tisdale.

—**filifolia** Nutt. Thread-leaved Sedge. Common on dry hillsides.

—**foenea** Willd. (See Rhodora 40:325-29. 1937).—*C. siccata* Dewey. Dry-spiked Sedge. Very common on dry soil.

—**Garberi** Fern. var. *bifaria* Fern. (See Rhodora 37:253-55. 1935.) Garber's Sedge. McKague, Pike Lake, Wallwort, Waskesiu Lake.

—**glacialis** Mack. Glacier Sedge. Athabaska Lake region.

—**gynocrates** Wormsk. Northern Bog Sedge. Common in wet mossy woods.

—**Haleana** Olney—*C. Shriveri* Britt. Shriver's Sedge. (Sask.)

—**Heleonastes** L. Hudson Bay Sedge. Cumberland House (Macoun); McKague, Waskesiu Lake.

—**heliophila** Mack. Sun-loving Sedge. Common on dry prairie. Very similar to *C. pennsylvanica* Lam.

—**Hoodii** Boott Hood's Sedge. Cypress Hills.

—**Hookerana** Dewey Hooker's Sedge. Buffalo Lake, McKague, Pike Lake, Saskatoon, Wallwort.

—**Houghtonii** Torr. Houghton's Sedge. Emma Lake, Prince Albert Nat. Park, Tallpines.

—**hystricina** Muhl. Porcupine Sedge. Pike Lake. Found in a springy shaded place.

—**inflata** Huds.—*C. rostrata* Stokes Inflated Sedge. Collections from Athabaska Lake have been assigned to this species. Also collected at Wapus River along S.E. shore of Reindeer Lake, by Dr. D. S. Rawson.

—**inflata** Huds. var. *utriculata* (Boott) Druce (See Rhodora 44:324-331. 1942.) —*C. rostrata* Stokes—*C. utriculata* Boott Beaked Sedge. Very common in borders of sloughs and lakes.

—**interior** Bailey Inland Sedge. Common in bogs.

—**lacustris** Willd. Lake-bank Sedge. McKague, Montreal Lake, Prince Albert, Prince Albert Nat. Park, Redberry.

—**laeviconica** Dewey Glabrous-fruited Sedge. Moose Jaw, Prince Albert, Waskesiu.

—**lanuginosa** Michx.—*C. lasiocarpa* Ehrh. var. *lanuginosa* (Michx.) Clausen and Wahl. (See Rhodora 41:481. 1939). Woolly Sedge. Very common in borders of sloughs.

—**lasiocarpa** Ehrh. var. *americana* Fern. (See Rhodora 44:304-305. 1942.) Slender Sedge. This is the common plant with involute-filiform or canaliculate leaves found in swamps in northern districts which has passed as *C. lasiocarpa* Ehrh. Collected at Wapus River, Reindeer Lake by Dr. D. S. Rawson.

—**lenticularis** Michx. Lenticular Sedge. Athabaska Lake (R. S. Campbell).

—**leptalea** Wahl. Bristle-stalked Sedge. Common in wet springy places.

—**limosa** L. Mud Sedge. Crooked River, McKague, Prince Albert, Waskesiu Lake. Found in bogs.

—**livida** (Wahl.) Willd. Livid Sedge. McKague, Pike Lake, Prince Albert. Found in bogs.

—**loliacea** L. Athabaska Lake region. An arctic species.

—**Meadii** Dewey Mead's Sedge. File Hills and Qu'Appelle Valley (Macoun).

—**obtusata** Lilj. Blunt Sedge. Common on dry prairie.

—**oligosperma** Michx. Few-seeded Sedge. Methy Portgage, near latitude 57°N. (Macoun). Athabaska Lake region.

—**pachystachya** Cham. Thick-seeded Sedge. Cypress Hills. Resembles *C. festivella.*

—**Parryana** Dewey Parry's Sedge. Muenster, Saskatoon, Sinnett, Wadena.

—**paupercula** Michx. Bog sedge. Bjorkdale, Crooked River, Pre Ste. Marie, Prince Albert.

—**Peckii** E. C. Howe Peck's Sedge. Common in shady places.

—**petasata** Dewey Caespitose Sedge. Cypress Hills.

—**physocarpa** Presl. Bubble Sedge. Athabaska Lake region.

—**plantaginea** Lam. Plantain-leaved Sedge. (Sask.)

—**praegracilis** W. Boott Graceful Sedge. Common in meadows, especially on sandy soil.

—**prairea** Dewey Prairie Sedge. Lac Vert, Macdowall, McKague, Pike Lake, Prince Albert, Saskatoon.

—**praticola** Rydb. Northern Meadow Sedge. Buttress, Elbow, Langham, McKague, Saskatoon.

—**Pseudo-Cyperus** L. Cyperus-like Sedge. McKague.

—**Raeana** Boott Rae's Sedge. Methy Portage. According to Raup, the type specimen was collected here by Richardson.

—**Raynoldsii** Dewey Raynold's Sedge. Cypress Hills.

—**retrorsa** Schw. Retrorse Sedge. Crooked River, McKague, Shipman, Speddington, Waskesiu Lake, Weyburn.

—**Richardsonii** R. Br. Richardson's Sedge. Found occasionally in dry ground northward. Love, McKague, Muenster, Prince Albert.

—**Rossii** Boott Ross' Sedge. Common on shady banks.

—**saltuensis** Bailey Sheathed Sedge. Rather common in boggy woods northward.

—**Sartwellii** Dewey Sartwell's Sedge. Common in the borders of marshy sloughs.

—**saximontana** Mack. Mountain Sedge. Elbow, Moose Jaw, Saskatoon, Tilney.

—**scirpiformis** Mack.—*C. scirpoidea* var. *scirpiformis* (Mack.) O'Neill and Duman (See Rhodora 43:417. 1940.) Fairly common in wet meadows and bogs.

—**scirpoidea** Michx. Scirpus-like Sedge. An arctic and alpine species. Athabaska Lake region.

—**scoparia** Schk. Pointed Broom Sedge. Carnduff (T. N. Willing); Saskatoon.

—**simulata** Mack. Mimic Sedge. Pike Lake; Yorkton (Mrs. I. M. Priestly). Resembles *C. praegracilis*. The Yorkton specimen was rather immature so the determination of it is only tentative.

—**Sprengelii** Dewey Sprengel's Sedge. Common in open woods on rich soil.

—**sterilis** Willd. Sterile Sedge. Macdowall, Prince Albert, Waskesiu Lake.

—**stipata** Muhl. Awl-fruited Sedge. Wisespread but not very abundant.

—**subspathacea** Wormsk. Hoppner's Sedge. Cumberland House (Macoun).

—**supina** Willd. Weak Arctic Sedge. Athabaska Lake region.

—**sychnocephala** Carey Dense Long-beaked Sedge. Widespread in meadows and thickets. Athabaska Lake region.

—**tenera** Dewey Straw Sedge. Crooked River, Gainsborough, Rosetown, Saskatoon, Swift Current, Wallwort.

—**tenuiflora** Wahl. Sparse-flowered Sedge. Found occasionally in bogs. Athabaska Lake region; Crooked River, Waskesiu Lake.

—**tetanica** Schk. Wood's Sedge. Abundant in Manitoba and westward (Macoun). We have seen no collections of this species but it may be common in south-eastern Saskatchewan.

—**tonsa** (Fern.) Bickn.—*C. umbellata* Schk. var. *tonsa* Fern. Deep Green Sedge. Found in dry sandy soil at Prince Albert. According to Raup, Richardson collected it at Methy Portage. Reported from Cadillac by E. W. Tisdale.

—**Torreyi** Tuckerm.—*C. abbreviata* Prescott Torrey's Sedge. Common on low prairie.

—**trisperma** Dewey Three-fruited Sedge. (Sask.)

—**umbellata** Schk. Umbellate Sedge. (Sask.)

—**Vahlii** Schk. var. *inferalpina* (Wahl.) Fern. Alpine Sedge. Methy Portage (J. M. Macoun); McKague, Prince Albert Nat. Park, Tallpines.

—**vesicaria** L. Blister Sedge. Rare. Trossachs. Difficult to distinguish from *C. rostrata*.

—**viridula** Michx. Green Sedge. Emma Lake, Golburn, Pike Lake, Prince Albert Nat. Park, Saskatoon.

—**vulpinoidea** Michx. Fox Sedge. Found on the wet shore of Montreal Lake and in a pond in the Prince Albert Nat. Park.

—**xerantica** Bailey White-scaled Sedge. Buttress, Gainsborough, Hague, Humboldt, McKague, Saskatoon, Trossachs.

Carex spp. See "Notes on the Cyperaceae of Saskatchewan. II Carex," by G. F. Ledingham and W. P. Fraser. American Midland Naturalist, 29:1:42-50. 1943.

Cyperus Schweinitzii Torr. Schweinitz's Cyperus. Cutknife, Elbow.

—**strigosus** L. Straw-coloured Cyperus. Watrous (Herbert Groh).

Eleocharis acicularis (L.) R. and S. Needle Spike-rush. Common in sloughs and marshes.

—**calva** Torr. Eagle Creek, Prince Albert.

—**compressa** Sull.—*E. acuminate* (Muhl.) Nees Flat-stemmed Spike-rush. Bredenbury, Moose Jaw, Moose Mountain Creek, Souris Plains.

—**palustris** (L.) R. and S. Creeping Spike-rush. Common around sloughs and marshes. Athabaska Lake region.

—**pauciflora** (Lightf.) Link—*Scirpus pauciflorus* Lightf. Few-flowered Spike-rush. Athabaska Lake region; Bredenbury and Cypress Hills (Macoun); McKague, Saskatoon.
—**tenuis** (Willd.) Schultz. Slender Spike-rush. (Sask.)
—**uniglumis** (Link) Schult. One-glumed Spike-rush.
Eleocharis spp. Several of the above records of collections from Saskatchewan are taken from Svenson's recent article on Eleocharis in Rhodora.
Eriophorum angustifolium Roth Tall Cotton-grass. Common in swamps.
—**Chamissonis** C. A. Meyer Russet Cotton-grass. Athabaska Lake region; Crooked River, McKague, Waskesiu Lake.
—**gracile** Koch Slender Cotton-grass. Macdowall, McKague.
—**opacum** (Bjornstr.) Fern. Close-sheathed Cotton-grass. Athabaska Lake region; McKague, Prince Albert, Waskesiu Lake.
—**spissum** Fern.—*E. callitrix* Amer. Auth. (Rhodora 27:208, 1925.) Sheathed Cotton-grass. Athabaska Lake; Crooked River, McKague, Prince Albert, Prince Albert Nat. Park.
—**viridicarinatum** (Engelm.) Fern. Thin-leaved Cotton-grass. Widely distributed in the meadows and bogs of the north.
Leucocoma alpina (L.) Rydb. -*Scirpus hudsonianus* (Michx.) Fern. —*Eriophorum alpinum* L. Alpine Cotton-grass. Golburn.
Mariscus mariscoides (Muhl.) Kuntze—*Cladium mariscoides* Torr. Twig Rush. Dahlton.
Rynchospora alba (L.) Vahl. White Beaked-rush. Dahlton, Prince Albert.
—**fusca** (L.) Ait. Brown Beaked-rush. Nipawin.
Scirpus acutus Muhl. Viscid Great Bulrush. Pike Lake; Yorkton (Mrs. I. M. Priestly). Determined by Alan A. Beetle of the University of California.
—**americanus** Pers. Three-square Bulrush. Common around sloughs.
—**atrosinctus** Fern. Athabaska Lake region.
—**atrovirens** Muhl. Dark-green Bulrush. (Sask.)
—**caespitosus** L. var. *callosus* (Bigel.) Fern. (Rhodora 23:22. 1921.) Tufted Club-rush. Athabaska Lake region; Dahlton, Prince Albert.
—**cyperinus** (L.) Kunth Wool-grass. Collected in swamps at Meadow Lake, Prince Albert, Prince Albert Nat. Park, Turtle Lake.
—**fluviatilis** (Torr.) A. Gray River Bulrush. Pike Lake.
—**nevadensis** S. Wats. Nevada Bulrush. Cypress Hills and Johnstone Lake (Macoun); Redberry Lake, Saskatoon, Vonda Lake.
—**paludosus** A. Nels. Prairie Bulrush. Common in saline sloughs and lakes.
—**pumilus** Vahl.—*S. alpinus* Schleich. Dwarf Club-rush. Sutherland.
—**rubrotinctus** Fern.—*S. microcarpus* Presl. Small-fruited Bulrush. Widespread in swamps but not abundant. Athabaska Lake region.
—**rufus** (Huds.) Schrad. Red Club-rush. Pike Lake, Sutherland.
—**validus** Vahl. Great Bulrush. Common in borders of lakes and sloughs.
Scirpus spp. See "Notes on the Cyperaceae of Saskatchewan. I Scirpus," by W. P. Fraser. The Canadian Field-Naturalist, 54:7:100-101. 1940.

ARACEAE. Arum Family.

Acorus Calamus L. Sweet Flag. Bjorkdale, McKague, Pike Lake, Prince Albert Nat. Park, Tisdale.
Calla palustris L. Water Calla. Athabaska Lake region; Bjorkdale, Christopher Lake, Montreal Lake, Prince Albert Nat. Park.

LEMNACEAE. Duckweed Family.

Lemna minor L. Lesser Duckweed. Common. Floats on ponds and other bodies of still water. Athabaska Lake region.
—**trisulca** L. Ivy-leaved Duckweed. Common in lakes and sloughs.
Spirodela polyrhiza (L.) Schleid. Larger Duckweed. Prince Albert Nat. Park (O. C. Furniss).

MELANTHACEAE. Bunch-flower Family.

Anticlea chlorantha (Richards.). Rydb.—*Zygadenus glaucus* Nutt. White Camas. (Sask.), but, according to Fernald (Rhodora 37; 256-258. 1935), this is an eastern species which has been confused with the following one.

—**elegans** (Pursh) Rydb.—*Z. elegans* Pursh Smooth Camas. Common in saline meadows.

Tofieldia glutinosa (Michx.) Pers. Asphodel. Bogs. McKague, Prince Albert.

Toxicoscordion gramineum Rydb.—*Zygadenus gramineus* Rydb. Death Camas. Cypress Hills, Maple Creek, Ravenscrag, Swift Current.

JUNCACEAE. Rush Family.

Juncus ater Rydb.—*J. balticus* Willd. var. *montanus* Engelm. Baltic Rush. Very common in wet meadows.

—**brevicaudatus** (Engelm.) Fern. Narrow-panicled Rush. Athabaska Lake region.

—**bufonius** L. Toad Rush. Fairly common on the shores of lakes and streams. Athabaska Lake region.

—**confusus** Cov. Few-flowered Rush. Cypress Hills, Saskatoon.

—**Dudleyi** Wieg. Dudley's Rush. Common in wet places.

—**ensifolius** Wikstr. Equitant-leaved Rush. Cypress Hills.

—**filiformis** L. Thread Rush. Athabaska Lake region.

—**longistylis** Torr. Long-styled Rush. Common in wet meadows.

—**macer** S. F. Gray—*J. tenuis* Willd. Slender Rush. Montreal Lake, Prince Albert Nat. Park.

—**Mertensianus** Bong. Slender-stemmed Rush. Cypress Hills.

—**nodosus** L. Knotted Rush. Common near sloughs, lakes, and streams.

—**Richardsonianus** Schult. Richardson's Rush. Common on lake shores.

—**stygius** L. var. *americanus* Buchenau Athabaska Lake region.

—**Torreyi** Cov. Torrey's Rush. Saskatoon.

—**Vaseyi** Engelm. Vasey's Rush. Athabaska Lake region; Montreal Lake.

Luzula multiflora (Ehrh.) Lej. Many-flowered Wood-rush. McKague.

—**parviflora** (Ehrh.) Desv. Small-flowered Wood-rush. Range.

—**saltuensis** Fern. Hairy Wood-rush. (Sask.)

—**spicata** (L.) DC. Spiked Wood-rush. Range.

ALLIACEAE. Onion Family.

Allium cernuum Roth Nodding Onion. Carnduff.

—**Geyeri** S. Wats. Geyer's Onion. Katepwa, Lebret.

—**recurvatum** Rydb. Recurved Onion. Cypress Hills.

—**Schoenoprasum** L. var. *sibiricum* (L.) Hartm. Athabaska Lake region.

—**stellatum** Ker Pink-flowered Onion. Widespread in semi-wooded areas.

—**textile** Nels. & Macbr. Prairie Onion. Very common on dry prairie and hills.

LILIACEAE. Lily Family.

Lilium umbellatum Pursh.—*L. philadelphicum* L. var. *andinum* (Nutt.) Ker Western Red Lily. Plentiful in certain saline meadows and scattered in open woods.

CONVALLARIACEAE. Lily-of-the-valley Family.

Disporum trachycarpum S. Wats. Disporum. Fairly common in woods.

Maianthemum canadense Desf. var. *interius* Fern. Two-leaved Solomon's Seal. Common in woods. Athabaska Lake region; Wapus River, along Reindeer Lake (Dr. D. S. Rawson).

Smilacina racemosa (L.) Desf. False Spikenard. Cypress Hills.

—**stellata** (L.) Desf. Star-flowered Solomon's Seal. Very common in and around bluffs.

—**trifolia** (L.) Desf. Three-leaved Solomon's Seal. Athabaska Lake region; Bjorkdale, Crooked River, McKague, Prince Albert, Waskesiu Lake.

TRILLIACEAE. Trillium Family.

Trillium cernuum L. Nodding Trillium. Runnymede.

SMILACACEAE. Smilax Family.

Nemexia lasioneuron (Hook.) Rydb.—*Smilax herbacea* Coult. Smilax. Fairly common in woods.

AMARYLLIDACEAE. Amaryllis Family.

Hypoxis hirsuta (L.) Cov. Star Grass. Buchanan, Yorkton.

IRIDACEAE. Iris Family.

Sisyrinchium angustifolium Miller Narrow-leaved Blue-eyed Grass. Common in meadows. Athabaska Lake region.

—**mucronatum** Michx. Mucronate Blue-eyed Grass. Common in meadows.

—**septentrionale** Bickn. Northern Blue-eyed Grass. Broadview, Indian Head, Muenster, Patience Lake, Sutherland.

ORCHIDACEAE. Orchid Family.

Aplectrum spicatum (Walt.) B.S.P. Putty-root. (Sask.)

Coeloglossum bracteatum (Willd.) Parl.—*Habenaria bracteata* (Willd.) R. Br. Long-bracted Orchid. Common in wet meadows near woods.

Corallorrhiza maculata Raf. Large Coral-root. Cypress Hills, Emma Lake, Langbank, McKague, Theodore.

—**striata** Lindl. Striped Coral-root. Cypress Hills, Kelliher, Langbank; Moose Mntns. (Mrs. S. Rogers).

—**trifida** Chatelain Early Coral-root. Rather common in woods. Athabaska Lake region.

Criosanthes arietina (R. Br.) House—*Cypripedium arietinum* R. Br. Ram's-head Lady's-slipper. Prince Albert (O. C. Furniss).

Cypripedium montanum Dougl. Mountain Lady's-slipper. (Sask.)

—**parviflorum** Salisb. Small Yellow Lady's-slipper. Fairly common northward.

—**parviflorum** var. *pubescens* (Willd.) Knight—*C. pubescens* Willd. Large Yellow Lady's-slipper. McKague. According to Gray's Manual, the lip is 2-3 cm. long in the species, and 3.5-5 cm. long in the variety

—**passerinum** Richards. Northern Lady's-slipper. Bjorkdale, Macdowall, McKague, Waskesiu Lake.

Cytherea bulbosa (L.) House *Calypso bulbosa* (L.) Oakes. Venus' Slipper. Emma Lake (L. G. Saunders); Torch River.

Fissipes acaulis (Ait.) Small—*Cypripedium acaule* Ait. Stemless Lady's-slipper. Athabaska Lake region. Reported from Lac La Ronge.

Goodyera decipiens (Hook.) Hubbard—*Peramium decipiens* (Hook.) Piper Rattlesnake Plantain. Cypress Hills.

—**ophioides** (Fern.) Rydb.—*G. repens* (L.) R. Br. var. *ophioides* Fern.—*P. ophioides* (Fern.) Rydb. Lesser Rattlesnake Plantain. Athabaska Lake region; Emma Lake, Kingsmere Lake, McKague, Waskesiu Lake.

Limnorchis dilatata (Pursh) Rydb.—*Habenaria dilatata* (Pursh) Hook. White Bog Orchis. Macdowall, McKague, Pike Lake, Prince Albert.

—**viridiflora** (Cham.) Rydb.—*H. hyperborea* Coult. Green-flowered Orchis. Common in wet places.

Liparis Loeselii (L.) Rich. Tway-blade. Dahlton.

Listera convallarioides (Sw.) Torr.—*Ophrys convallarioides* (Sw.) W. F. Wight. Broad-lipped Tway-blade. Cypress Hills (A. C. Budd); McKague; Prince Albert (O. C. Furniss); Waskesiu Lake.

—**cordata** (L.) R. Br. –*O. cordata* L. Heart-leaved Tway-blade. Crooked River (G. F. Ledingham); Cypress Hills, McKague.

Lysiella obtusata (Pursh) Rydb.— *Habenaria obtusata* (Pursh) Richards. Small Northern Bog Orchis. Fairly common in wet places. Athabaska Lake region.

Malaxis unifolia Michx. Green Adder's Mouth. Waskesiu Lake.

Orchis rotundifolia Pursh Orchis. Widespread and fairly common in wet shady places. Athabaska Lake region.

Platanthera orbiculata (Pursh) Lindl.—*Lysias orbiculata* (Pursh) Rydb.— *Habenaria orbiculata* (Pursh) Torr. Large round-leaved Orchis. Torch River.

Spiranthes gracilis (Bigel.) Beck—*Ibidium gracile* (Bigel.) House Slender Ladies'-tresses. Waskesiu Lake.

—**stricta** Rydb. –*S. Romanzoffiana* Cham.—*I. strictum* (Rydb.) House Hooded Ladies'-tresses. Beaver Creek, McKague, Prince Albert, Red Pheasant, Waskesiu Lake.

DICOTYLEDONES. Dicotyledons.

SALICACEAE. Willow Family.

Populus acuminata Rydb. Lance-leaf Cottonwood. (Sask.) Confined to banks of streams in southern Alberta (Morton and Lewis "Native Trees of Canada").

—**angustifolia** James Narrow-leaved Cottonwood. Fish Creek. Confined to banks of streams in southern Alberta and Saskatchewan (Morton and Lewis).

—**candicans** Mich. Balm-of-Gilead. Big River, Elbow, Ituna, Webb. Considered a variety of the balsam poplar (*P. tacamahacca*) by many botanists.

—**Sargentii** Dode—*P. deltoides* Marsh var. *occidentalis* Rydb. Western Cotton-wood. Lemsford Ferry, Saskatchewan Landing, Saskatoon.

—**tacamahacca** Mill.—*P. balsamifera* Du Roi. Balsam Poplar. Common near water.

—**tremuloides** Michx. Aspen. By far the commonest and most abundant of our poplars.

—**virginiana** Fourg.—*P. deltoides* Marsh. Cotton-wood. Bracken.

Salix amygdaloides Anders. Peach-leaved Willow. Bertwell, East End, Hudson Bay Jnctn., Maple Creek; Riverhurst (R. Parliament); Stewart Valley, Val Marie.

—**arbusculoides** Anders. Shrubby Willow. Athabaska Lake region; McKague, Montreal Lake, Prince Albert Nat. Park.

—**Barclayi** Anders. Barclay's Willow. McKague.

—**Bebbiana** Sarg.—*S. rostrata* Richards. Grey Willow. This willow, including the variety *perrostrata*, is the most common willow on the prairies. It occurs chiefly in low places and around sloughs but at a higher level than *S. petiolaris*. Athabaska Lake region.

—**Bebbiana** Sarg. var. *perrostrata* Schneid.—*S. perrostrata* Rydb. Beaked Willow. Very common. The characters of the leaves by which it is usually separated vary so much in our collections that we prefer to regard it as a variety. It seems to be more common on the prairies than northward where the species seems to predominate.

—**brachycarpa** Nutt. Short-capsuled Willow. Widespread in low-lying hummocky places around sloughs and bogs.

—**brachycarpa** Nutt. var. *psammophila* Raup Athabaska Lake region.

—**candida** Fluegge Hoary Willow. Widespread and rather common in swampy places, especially northward.

—**cordata** Muhl. Heart-leaved Willow. Range.

—**curtiflora** Anders. Short-flowered Willow. (Sask.)

—**desertorum** Richards. Desert Willow. Cypress Hills (J. M. Macoun). (Sask.)

—**discolor** Muhl. Pussy Willow. Rather common around sloughs and other wet places. Athabaska Lake region.

—**discolor** Muhl. var. *prinoides* Anders. —*S. prinoides* Pursh McKague.

—**discolor** Muhl. var. *eriocephala* (Michx.) Robbins and Fern.—*S. eriocephala* Michx. Nipawin.

—**exigua** Nutt. Slender Willow. (Sask.)

—**exigua** Nutt. var. *luteosericea* (Rydb.) Schneid. Its pubescence is a little more villous and the aments a little more loosely flowered than the species. Swift Current.

—**glaucops** Anders.—*S. glauca* L. var. *glabrescens* Schneid. Low Willow. Athabaska Lake region; McKague, Prince Albert, Prince Albert Nat. Park.

—**gracilis** Anders.—*S. petiolaris* Smith var. *rosmarinoides* Schneid. Graceful Willow. Fairly common around sloughs.

—**Hookeriana** Barratt Hooker's Willow. (Sask.)

—**humilis** Marsh. Prairie Willow. McKague, Nipawin.

—**interior** Rowlee—*S. longifolia* Muhl. Sandbar Willow. Common on sandbars and other wet sandy situations.

—**lasiandra** Benth. Red Willow. Langham.

—**lasiandra** Benth. var. *lancifolia* (Huds.) Bebb McKague, Nipawin, Prince Albert Nat. Park.

—**linearifolia** Rydb.—*S. interior* var. *pedicellata* (Anders.) Ball Linear-leaved Willow. Common on river banks and in sandhill areas.

—**lucida** Ball Shining Willow. Bertwell, Hudson Bay Jnctn., Nipawin, Prairie River, Runciman.

—**lucida** Ball var. *angustifolia* Anders. Bertwell, Hudson Bay Jnctn., Leacross, McKague.

—**lucida** Ball var. *intonsa* Fern. Greenbush, Hudson Bay Jnctn., Nipawin, Prairie River.

—**lutea** Nutt. Yellow Willow. Rather common along rivers, river flats and in moist depressions.

—**MacCalliana** Rowlee Velvet-capsuled Willow. Not rare in low moist situations along streams and borders of swamps.

—**melanopsis** Nutt. Dusky Willow. Collections made at Eye Hill Creek by Macoun and Herriot were assigned to this species. Ball (Can. Field Naturalist 40:172. Nov., 1926).

—**myrtillifolia** Anders. Myrtle-leaved Willow. Not rare in bogs and swamps of the north. Athabaska Lake region. Also collected in the Cypress Hills.

—**myrtillifolia** Anders. var. *brachypoda* Fern. McKague.

—**pedicellaris** Pursh var. *hypoglauca* Fern. Bog Willow. Not rare northward in bogs and wet places. Athabaska Lake region.

—**pellita** Anders. Satiny Willow. Found along streams in the McKague-Nipawin-Hudson Bay Jnctn. area.

—**petiolaris** Smith Basket Willow. A very common willow on the prairies in the edges of sloughs and streams.

—**planifolia** Pursh Flat-leaved Willow. Not rare in low ground along streams and swamps. Athabaska Lake region.

—**planifolia** Pursh var. *Nelsonii* Ball—*S. Nelsonii* Ball McKague. Differs from the species by its narrow, pointed leaves.

—**pseudomonticola** Ball False Mountain Willow. Common on low ground along spreams and in swampy places, except in the southern part of the province.

—**pyrifolia** Anders.—*S. balsamifera* (Hook.) Barratt Balsam Willow. Found around sloughs and potholes. Athabaska Lake region; Bannock, Bjorkdale, Crooked River, Golburn, Orley, Prince Albert Nat. Park.

—**Scouleriana** Barratt Scouler's Willow. Athabaska Lake region; Waskesiu Lake.

—**serissima** (Bailey) Fern. Autumn Willow. Not rare in bogs. Catkins mature late in the season.

—**silicicola** Raup Athabaska Lake region.

—**Turnorii** Raup Turnor's Willow. Athabaska Lake region.

—**Tyrrellii** Raup Tyrrell's Willow. Athabaska Lake region.

Salix spp. Starting in the spring of 1937, a special study was made of the Willows of this region. Much valuable assistance in collecting and studying the different species was received from several interested persons, including A. J. Brietung, G. F. Ledingham, and J. L. Bolton. Duplicates of the more difficult ones were sent away to C. R. Ball for determination. (See "Notes on the Willows of Saskatchewan" by W. P. Fraser. The Can. Field Naturalist 56:104-110. 1942.)

MYRICACEAE. Bayberry Family.

Myrica Gale L. Sweet Gale. Found in the northern part of the province. Athabaska Lake, Island Lake.

BETULACEAE. Birch Family.

Alnus crispa (Ait.) Pursh Green Alder. Common in the north.

—**incana** (L.) Moench Hoary Alder. Common along streams and lakes, especially northward.

Betula fontinalis Sarg.—*B. microphylla* Bunge River Birch. Common along river banks, and in low spots in sandhills.

—**glandulifera** (Regel) Butler—*B. pumila* L. var. *glandulifera* Regel Swamp Birch. (Sask.)

—**glandulosa** Mich. Glandular Birch. Common on low ground in certain areas.

—**papyrifera** Marsh. Paper Birch. Common along streams and northward.

—**papyrifera** Marsh. var. *cordifolia* (Regel) Fern. Golburn, Hudson Bay Jnctn., Madge Lake, McKague, Wallwort.

—**papyrifera** Marsh. var. *neoalaskana* (Sarg.) Raup—*B. alaskana* Sarg. Alaska Birch. Common northward. Raup states: "This variety, distinguished from the species chiefly by its resinous glandular twigs, does not seem worthy of specific rank." (Contributions Arnold Arboretum, 6-152. 1934).

—**pumila L.** Low Birch. Range.

CORYLACEAE. Hazelnut Family.

Corylus americana Walt. American Hazelnut. Up the Assiniboine and Qu'Appelle Rivers and in the Moose Mountains and Cypress Hills (Macoun).

—**rostrata** Ait.—*C. cornuta* Marsh. Beaked Hazelnut. Common on moist wooded hillsides.

FAGACEAE. Beech Family.

Quercus macrocarpa Michx. Bur Oak. Along the Pipestone and Qu'Appelle valleys near the Manitoba border.

—**mandanensis** Rydb. Mandan Oak. (Sask.)

ULMACEAE. Elm Family.

Ulmus americana L. American Elm. Cumberland House (R. Bell); Fort Qu'Appelle, Katepwa, Lumsden, Oxbow, Trossachs. According to Thos. Rowles, of the Sutherland Forestry Farm, a grove of old trees exist along the South Saskatchewan River at Outlook.

CANNABINACEAE. Hemp Family.

Humulus Lupulus L. Common Hops. Common in the valleys of the Assiniboine and Qu'Appelle Rivers (Macoun); Bienfait, Katepwa, Leacross, Runciman, Tisdale.

URTICACEAE. Nettle Family.

Parietaria pennsylvanica Muhl. American Pellitory. Cypress Hills (Macoun).

Urtica gracilis Ait.— *U. Lyallii* Amer. Auth. (Rhodora, 28:191. Oct., 1926). Slender Nettle. Emma Lake, Piapot, Saskatoon.

—**procera** Muhl.— *U. gracilis* of most Amer. Auth. Common Nettle. Pike Lake, Saskatoon, Swift Current.

—**viridis** Rydb. Green Nettle. Richard, Waskesiu.

POLYGONACEAE. Buckwheat Family.

Bilderdykia cilinodis (Michx.) Greene Fringed Black Bindweed. (Sask.)

—**Convolvulus** (L.) Dum.—*Polygonum Convolvulus* L. Wild Buckwheat. Common in cultivated fields.

Bistorta vivipara (L.) S. F. Gray Alpine Bistort. Range.

Eriogonum cernuum Nutt. Nodding Umbrella Plant. Abbey.

—**flavum** Nutt. Yellow Umbrella Plant. Common on dry hillsides in some districts.

—**multiceps** Nees Branched Umbrella Plant. Big Muddy (Wm. Shevkenek); Val Marie.

Persicaria coccinea (Muhl.) Greene Swamp Persicaria. Maple Creek, Saskatoon, Trossachs, Val Marie.

—**fluitans** (Eat.) Greene Water Persicaria. Common in shallow sloughs.

—**Hydropiper** (L.) Opiz. Smart-weed. Range.

—**incana** (Schmidt) S. F. Gray Emma Lake, Pike Lake, and Saskatoon. (Determined by Dr. J. F. Brenckle. He regards it as a variety of *P. tomentosa.*)

—**incarnata** (Ell.) Small Dock-leaved Persicaria. Emma Lake, McKague, Nipawin, Wallwort.

—**lapathifolia** (L.) S. F. Gray Pale Persicaria. Margins of pools south of Battleford (Macoun); Mortlach, Pike Lake, Saskatoon, Weyburn.

—**Muhlenbergii** (Meisn.) Small Muhlenberg's Persicaria. Bengough, Hitchcock, Leinan, Stewart Valley, Swift Current.

—**nebraskensis** Greene Nebraska Persicaria. Cadillac, Cypress Hills, Ituna, McKague, Saskatoon, Wallwort.

—**pratincola** Greene Meadow Persicaria. Bruno, Saskatoon, Swift Current, Sutherland. (All four collections confirmed by Dr. J. F. Brenckle).

—**psychrophila** Greene Northern Persicaria. Widespread.

—**rigidula** (Sheld.) Greene Rigid Persicaria. Moose Jaw (Miss Connie Turner).

—**tomentosa** (Shrank) Bickn. Hairy Persicaria. Common on lake shores. Also found in cultivated fields.

Polygonum achoreum Blake Striate Knotweed. Common on hard packed soil around habitations and along roadsides.

—**aviculare** L. Doorweed. Common in similar situations as *P. achoreum.*

—**buxiforme** Small Shore Knotweed. Maple Creek, Saskatoon, Swift Current, Val Marie.
—**caespitosum** Aschers. and Graebn. Caespitose Knotweed. Rosthern, Saskatoon.
—**Douglassii** Greene Douglas' Knotweed. Bengough, Cypress Hills, Mankota, Swift Current.
—**erectum** L. Erect Knotweed. Collections previously assigned to this species have been transferred to *P. achoreum*.
—**exsertum** Small Long-fruited Knotweed. Kelstairs, Saskatoon, Swift Current, Tisdale, Watrous.
—**heterophyllum** Lindm. Various-leaved Knotweed. Jansen, McLean, Swift Current.
—**neglectum** Besser Narrow-leaved Knotweed. Luseland, Swift Current. According to Dr. Brenckle, this belongs to the *P. aviculare* group.
—**prolificum** (Small) D. L. Robinson Proliferous Knotweed. Patience Lake, Saskatoon.
—**ramosissimum** Michx. Bushy Knotweed. Meadow Lake, Regina Beach, Saskatoon, Swift Current.
—**rubescens** Small Red Knotweed. (Sask.)
—**Watsonii** Small Watson's Knotweed. (Sask.)
—spp. Dr. J. F. Brenckle of Mellette, South Dakota, has given us considerable help with determinations of Persicaria and Polygonum.
Rumex Acetosa L. Sour Dock. Range.
—**acetosella** L. Sheep Sorrel. Holbein, McKague, Murraydale, Prince Albert, Scott, St. Louis, Waldheim.
—**altissimus** Wood Tall Dock. Wymark.
—**crispus** L. Curled Dock. McKague.
—**mexicanus** Meissn. Narrow-leaved Dock. Common in wet places.
—**occidentalis** S. Wats. Western Dock. Sutherland, Swift Current.
—**persicarioides** L. Golden Dock. Common.
—**venosus** Pursh Wild Begonia. Common in very sandy soil.
Tracaulon sagittatum (L.) Small Arrow-leaved Tear-thumb. (Sask.)

CHENOPODIACEAE. Goosefoot Family.

Atriplex argentea Nutt. Silvery Atriplex. Elbow of South Saskatchewan River (Macoun); Forward; Maple Creek (H. D. Moss); Piapot.
—**hastata** L. Halberd-leaved Atriplex. Common in saline meadows.
—**hortensis** L. Garden Atriplex. Saskatoon. Escaped from gardens.
—**nitens** Sch. Tisdale. This species is not native.
—**Nuttallii** S. Wats. Nuttall's Atriplex. Common on dry open prairie.
Axyris amaranthoides L. Russian Pigweed. Common in waste places.
Blitum capitatum L. Strawberry Spinach. Fairly common around bluffs and in woods.
Chenopodium album L. Lambs' Quarters. A common weed in cultivated land.
—**dacoticum** Standl. Stinking Goosefoot. Saskatchewan Landing.
—**Fremontii** S. Wats. Fremont's Goosefoot. Saskatoon, Sutherland, Swift Current.
—**humile** Hook. Low Goosefoot. (Sask.)
—**hybridum** L. Maple-leaved Goosefoot. Fairly common in woods and grain-fields in wooded districts.
—**lanceolatum** Muhl. Lance-leaved Goosefoot. Moose Jaw (Miss Connie Turner); Kisby, Mortlach, Trossachs.
—**leptophyllum** Nutt. Narrow-leaved Goosefoot. Mortlach, Swift Current, Webb. Common in some sandhill areas.
—**polyspermum** L. Many-seeded Goosefoot. Wallwort.

—**rubrum** L. Red Goosefoot. Fairly common in wet saline soil.
—**salinum** Standl. Oak-leaved Goosefoot. Fairly common in wet saline soil.
Corispermum marginale Rydb. Bug-seed. Climax, Maple Creek, Pike Lake, Saskatoon. Grows on sandy soil.
—**villosum** Rydb. Villose Bug-seed. Beaver Creek, Biggar, Cadillac, Caron.
Cycloloma atriplicifolium (Spreng.) Coulter Winged Pigweed. Baildon.
Endolepis Suckleyi Torr. Endolepis. Elbow of South Saskatchewan River (Macoun); Bracken, Val Marie.
Eurotia lanata (Pursh) Moq. White Sage. Common on dry hilly prairie.
Kochia trichophylla Stapf. Kochia. Saskatoon, Swift Current. An escaped plant common in waste places in some towns and cities.
Monolepis Nuttalliana (Schult.) Greene Spear-leaved Goosefoot. A common weed in cultivated ground.
Salicornia rubra A. Nels. Samphire. Common in borders of alkaline sloughs and lakes.
Salsola Pestifer A. Nels. Russian Thistle. Common on cultivated land in open prairie districts, especially on sandy soils.
Sarcobatus vermiculatus (Hook.) Torr. Greasewood. Beverley, Kelstairs, Maple Creek, Val Marie.
Suaeda depressa (Pursh) S. Wats.—*Dondia depressa* Britt. Western Sea Blite. Fairly common in the borders of saline sloughs and lakes.
—**erecta** (A. Nels.) S. Wats.—*Dondia erecta* A. Nels. Erect Sea Blite. Common in similar habitats.
Suckleya Suckleyana (Torr.) Rydb. Suckleya. Moose Jaw (Neil Gilmour).

AMARANTHACEAE. Amaranth Family.

Amaranthus blitoides S. Wats. Prostrate Amaranth. Common weed in gardens and lawns.
—**graecizans** L. Tumble Weed. Common on cultivated soil.
—**retroflexus** L. Red-root Pigweed. Common weed in gardens and waste places.

NYCTAGINACEAE. Four-o'clock Family.

Allionia hirsuta Pursh Hairy Umbrella-wort. Beaver Creek, Oxbow, Qu'Appelle, Saskatoon, Sutherland. Commonly found on sandy soil.
—**linearis** Pursh Linear-leaved Umbrella-wort. Antelope (J. M. Macoun); Cypress Hills (Macoun).
—**ovata** Pursh Egg-leaved Umbrella-wort. Estevan (Rupert D. Ramsay).
—**pilosa** (Nutt.) Rydb. Pilose Umbrella-wort. Fairly common and widespread on sandy soil. It is difficult to separate from *A. hirsuta*. They are regarded as one species by some botanists.
Tripterocalyx micranthus (Torr.) Hook. Sand Puffs. (Sask.)

PORTULACACEAE. Purslane Family.

Claytonia caroliniana Michx. Spring Beauty. (Sask.)
—**lanceolata** Pursh Lance-leaved Spring Beauty. Cypress Hills.
Montiastrum lineare (A. Gray) Rydb. Linear-leaved Spring Beauty. Cypress Hills.
Portulaca oleracea L. Purslane. Common weed in gardens and waste places.

CORRIGIOLACEAE. Whitlow-wort Family.

Paronychia depressa Nutt. Depressed Whitlow-wort. Sutherland.
—**sessiliflora** Nutt. Low Whitlow-wort. Cypress Hills, Estevan, Saskatchewan Landing.
Scleranthus annus L. Knawel. Wolseley. Imported weed.

ALSINACEAE. Chickweed Family.

Arenaria congesta Nutt. Dense-flowered Sandwort. Cypress Hills (Macoun).
—**lithophila** Rydb. Rocky-ground Sandwort. Cypress Hills.
—**Arenaria serpyllifolia** L. Thyme-leaved Sandwort. Tisdale.
Cerastium arvense L. Meadow Chickweed. Range.
—**campestre** Greene Field Chickweed. Common in shallow depressions on the open prairie. Athabaska Lake (Dr. D. S. Rawson).
—**nutans** Raf. Long-stalked Chickweed. Widespread in moist places near woods.
—**vulgatum** L. Mouse-eared Chickweed. Range.
Moehringia lateriflora (L.) Fenzl. Moehringia. Common in woods.
—**macrophylla** (Hook.) Torr. Large-leaved Moehringia. Range.
Sabulina verna (L.) Rydb.—*Arenaria verna* L. Vernal Sandwort. McKague. (Possibly *S. dawsonensis* (Britt.) Rydb.)
Spergularia rubra (L.) J. and C. Presl. Purple Sand-spurry. Range.
—**salina** J. and C. Presl. Salt-marsh Sand-spurry. Dana, Kelstairs, Scott.
—**sparsiflora** (Greene) novo. comb.—*Tissa sparsiflora* Greene (Rydberg, Flora of the Rocky Mountains and Adjacent Plains, 1922). Few-flowered Sand-spurry. Patience Lake, Wakaw.
Stellaria alpestris Fries Alpine Chickweed. (Sask.)
—**borealis** Bigel. Northern Chickweed. Cypress Hills, Pike Lake, Wallwort, Waskesiu Lake.
—**crassifolia** Ehrh. Fleshy Chickweed. Emma Lake, Hudson Bay Jnctn., McKague, Pike Lake, Sutherland, Wallwort.
—**graminea** L. Lesser Chickweed. Waskesiu Lake.
—**longifolia** Muhl. Long-leaved Chickweed. Common on moist prairie.
—**longipes** Goldie Long-stalked Chickweed. Common on moist prairie. *S. Laeta* Richards. and *S. stricta* Richards. can hardly be separated from *S. longipes*.
—**media** (L.) Cyrill. Common Chickweed. Common weed in gardens in some districts.

CARYOPHYLLACEAE. Pink Family.

Agrostemma Githago L. Purple Cockle. Found occasionally in grain fields.
Gypsophila paniculata L. Baby's Breath. Found occasionally where it has escaped from cultivation.
Melandrium album (Mill.) Garcke—*Lychnis alba* Mill. White Campion. Found in a cultivated field at Saskatoon.
Silene antirrhina L. Sleepy Catchfly. Range.
—**Menziesii** Hook. Menzie's Catchfly. Cypress Hills (Macoun); Emma Lake (Miss Lucy Murray); Waskesiu Lake (Miss A. Anderson).
—**noctiflora** L. Night-flowering Catchfly. Found occasionally in grain fields and on native prairie.
—**vulgaris** (Moench) Garcke—*S. latifolia* (Mill.) Britt. and Rendle Bladder Campion. Indian Head, Odessa, Quill Lake, Swift Current, Wallwort.
Wahlbergella Drummondii (Hook.) Rydb. Drummond's Cockle. Widespread on open prairie.
Vaccaria vulgaris Host Cow Cockle. Found occasionally in grain fields, especially on the open plains.

CERATOPHYLLACEAE. Hornwort Family.

Ceratophyllum demersum L. Hornwort. Big River (O. C. Furniss); Buffalo Lake; Echo Lake (J. S. Thompson and J. E. Moore); Heart Lakes.

NYMPHAEACEAE. Water Lily Family.

Nuphar microphyllum (Pers.) Fern.—*Nymphaea microphylla* Pers. Small Yellow Pond Lily. (Sask.)

—**variegatum** Engelm.—*N. americana* Mill. and Standl. Yellow Pond Lily. Common in streams and lakes northward.

Nymphaea Leibergii Morong—*Castalia tetragona* (Georgi) Lawson Small White Water Lily. In the Saskatchewan River near Cumberland Lake.

RANUNCULACEAE. Buttercup Family.

Actea alba (L.) Mill. White Baneberry. Common in open woods.

—**rubra** (Ait.) Willd. Red Baneberry. Common in open woods.

Anemone canadensis L. Wind-flower. Very common on moist prairie.

—**cylindrica** A. Gray Long-fruited Anemone. Common on moist prairie.

—**globosa** Nutt. Cut-leaved Anemone. Common on moist prairie.

—**parviflora** Michx. Northern Anemone. Range.

—**virginiana** L. Tall Anemone. Across the plains to the Rocky Mountains (Macoun); Yorkton (Mrs. I. M. Priestly).

Aquilegia brevistyla Hook. Small-flowered Columbine. Le Cole Falls, McKague, Montreal Lake, Prince Albert, Prince Albert Nat. Park, Torch River.

—**canadensis** L. Wild Columbine. This species was seen in the Qu'Appelle Valley, west of Crooked Lake, according to Mrs. J. H. Flock.

Atragene columbiana Nutt. Western Purple Virgin's Bower. Cypress Hills.

Batrachium divaricatum (Schrank) Wimmer—*Ranunculus circinatus* Sibth.—*B. circinatum* (Sibth.) Rchb. Stiff Water-crowfoot. Elbow.

—**Drouetii** (F. Schultz) Nym. Drouet's White Water-crowfoot. Hague.

—**flaccidum** (Pers.) Rupr. Slender White Water-crowfoot. Cypress Hills.

—**trichophyllum** (Chaix) Bosch—*R. trichophyllus* Chaix White Water-crowfoot. Common in sloughs in 2-3 feet of water. Drew revised the genus (subsection according to this author), Batrachium. He did not recognize *B. Drouetii, B. divaricatum* Schrank or *B. flaccidum* as good American species. He described a new species, *R. subrigidus* Drew, and reported collections in Saskatchewan from (Milk River Ridge?) Parkbeg and Crane Lake (Rhodora 38:1. Jan. 1936).

Caltha palustris L. Marsh Marigold. Common in wet places northward.

Clematis ligusticifolia Nutt. Western Virgin's Bower. Great Sand Hills, Maple Creek, Piapot, Pike Lake, Saskatchewan Landing.

Coptidium lapponicum (L.) Gaud. Lapland Buttercup. Langham, McKague, Prince Albert, Waskesiu Lake.

Delphinium bicolor Nutt. Two-coloured Larkspur. Cypress Hills, Piapot, Robsart, Wood Mountain, Wyatt.

—**Brownii** Rydb. Brown's Larkspur. Mudie Lake (E. Berg). This record is based on a specimen sent in, and is tentative.

—**virescens** Nutt. Prairie Larkspur. Cypress Hills (Macoun).

Halerpestes Cymbalaria (Pursh) Greene—*Ranunculus Cymbalaria* Pursh Seaside Buttercup. Very common on the muddy shores of sloughs.

Myosurus aristatus Benth. Awned Mouse-tail. West of the elbow of the South Saskatchewan River (Macoun); Cypress Hills.

—**lepturus** (A. Gray) Howell Mouse-tail. Cypress Hills, Maple Creek, Saskatoon, Swift Current.

—**minimus** L. Least Mouse-tail. Chaplin (Annie Hobberstad), Cypress Hills, Fife Lake, Hitchcock, Maple Creek.

Pulsatilla ludoviciana (Nutt.) Heller—*Anemone patens* L. var. *Nuttalliana* A. Gray. Crocus Anemone. Very common on the prairie and one of the first of ~~our~~ wild flowers to bloom in the spring. Athabaska Lake (Dr. D. S. Rawson).

Ranunculus abortivus L. Smooth-leaved Buttercup. Widespread but not common.

—**acris** L. Tall Buttercup. Crooked River, Scott, Swift Current, Tisdale, Wadena.

—**affinis** R. Br. Northern Buttercup. Luseland, Saskatoon.
—**apetalus** Farr. Petal-less Buttercup. Cadillac (A. C. Budd); Swift Current.
—**cardiophyllus** Hook. Heart-leaved Buttercup. Cypress Hills, Luseland, Plunkett, Scott, Swift Current, Vawn.
—**delphinifolius** Torr. Yellow Water Crowfoot. Fairly common floating in sloughs.
—**glaberrimus** Hook. Glabrous Buttercup. Cadillac, Swift Current.
—**inamoenus** Greene Graceful Buttercup. Cypress Hills.
—**Macounii** Britt. Macoun's Buttercup. Common in damp places.
—**micranthus** Nutt. Rock Buttercup. (Sask.)
—**montanensis** Rydb. Mountain Buttercup. Saskatoon.
—**ovalis** Raf. Prairie Buttercup. Common on moist prairie. Blooms early.
—**pennsylvanicus** L.f. Bristly Buttercup. Bjorkdale, McKague, Pike Lake, Saskatoon, Waskesiu Lake.
—**purshii** Richards.—*R. Gmelini* DC. var. *Purshii* (Richards.) Hara (Rhodora 41: 386. 1939). Pursh's Buttercup. Beaver Creek, Fenton, Round Lake, Saskatoon, Waskesiu Lake.
—**reptans** L. Creeping Buttercup. Saskatoon.
—**sceleratus** L. Celery-leaved Buttercup. Common around sloughs.
Thalictrum dasycarpum Fisch. and Lall. Tall Meadow-rue. Armley, McKague, Piapot, Pike Lake, Saltcoats, Star City.
—**dioicum** L. Early Meadow-rue. Very common around bluffs.
—**venulosum** Trel. Veiny Meadow-rue. Dana, Ituna, Luseland, Muenster, Saskatoon.

PAPAVERACEAE. Poppy Family.

Argemone intermedia Sweet White Prickly-poppy. Prince.

FUMARIACEAE. Fumitory Family.

Corydalis aurea Willd.—*Capnoides aureum* (Willd.) Kuntze Golden Corydalis. Fairly common in wooded areas. Athabaska Lake (Dr. D. S. Rawson).
—**sempervirens** (L.) Pers.—*C. sempervirens* (L.) Borkh. Pink Cordydalis. Athabaska Lake, Emma Lake, Love, Torch River, Waskesiu Lake; Wapus River, along S. E. shore of Rheindeer Lake (Dr. D. S. Rawson).

BRASSICACEAE. Mustard Family.

Alyssum desertorum Stapf. Yellow Alyssum. Indian Head. Determined by Herbert Groh.
Arabidopsis glauca (Nutt.) Rydb. Mouse-ear Cress. Vawn (E. Ste. Marie).
—**stenocarpa** Rydb. Mouse-ear Cress. (Sask.)
Arabis Bourgovii Rydb. The status of this name is doubtful (Rhodora 43:480. 1941).
—**divaricarpa** A. Nels.—*A. brachycarpa* (T. and G.) Britt. Purple Rockcress. Common on dry hills. Lake Athabaska region.
—**Drummondii** A. Gray. Drummond's Rock-cress. Carmel, Indian Head, McKague, Saskatoon, Swift Current, Wallwort. This species is very similar to *A. divaricarpa* and some of the collections assigned here may belong to that species.
—**hirsuta** (L.) Scop. var. *pycnocarpa* (Hopkins) Rollins—*A. ovata* (Pursh) Poir. Hirsute Rock-cress. Widespread but not very plentiful.
—**Holboellii** Hornem var. *pinetorum* (Tidest.) Rollins—*A. retrofracta* Grah. (in part). Holboell's Rock-cress. A collection from Wood Mountain Post made by Macoun is assigned to this variety by Rollins; Saskatoon, Macdowall.
—**Holboellii** Hornem. var. *retrofracta* (Grah.) Rollins—*A. retrofracta* Grah. Reflexed Rock-cress. Common on dry hills. Athabaska Lake region.

—**Lyallii** S. Wats. Lyall's Rock-cress. Cypress Hills (J. M. Macoun). Regarded as a good species by Rollins.

—**lyrata** L. var. *kamchatica* Fisch. Lyre-leaved Rock-cress. Athabaska Lake region; Bjorkdale (John Laycock); Hudson Bay Jnctn., Prince Albert.

—**rupestris** Nutt. Rock-cress. (Sask.)

Arabis spp. A recent monograph by Rollins (Rhodora 43:289, 348, 425. 1941) deals with Arabis in western North America. The above changes are based on his conclusions.

Barbarea americana Rydb. American Winter-cress. Cypress Hills.

—**stricta** Andrz. Winter-cress. (Sask.)

Berteroa incana (L.) DC. Hoary Alyssum. Balgonie (L. J. Hutchinson).

Brassica juncea (L.) Cosson Indian Mustard. Common in cultivated fields and along roads.

—**nigra** (L.) Koch Black Mustard. Range.

Camelina dentata Pers. Flat-seeded False Flax. Delisle (Herbert Groh); Swift Current.

—**microcarpa** Andrz. Small-seeded False Flax. Fairly common in fields and waste places.

—**sativa** (L.) Crantz. Large-seeded False Flax. Range.

Capsella Bursa-pastoris (L.) Medic. —*Bursa Bursa-pastoris* (L.) Britt. Shepherd's Purse. Common in gardens and waste places.

Cardamine Douglasii (Torr.) Britt. Purple Cress. Range.

—**pennsylvanica** Muhl. Pennsylvania Bitter-cress. McKague.

—**pratensis** L. Meadow Bitter-cress. McKague; Pike Lake (Herbert Groh); Prince Albert Nat. Park, Sylvania.

Cardaria Draba (L.) Desv. Heart-podded Hoary Cress. Indian Head.

—**Draba** var. *repens* (Schrenk.) O. E. Schulz Lens-podded Hoary Cress. Landis, Saskatoon; Traynor (Herbert Groh); Wolseley (F. Barber).

—**pubescens** (Meyer) Rollins var. *elongata* Rollins (Rhodora 42:302-306. 1940.) —*Hymenophysa pubescens* C. A. Meyer (Sci. Agric. 20:12:750-756. 1940). Globe-podded Hoary Cress. Kelliher (Fred Bruce); Scott; Swift Current (A. C. Budd); Sutherland (Miss A. W. Anderson); Wilkie.

Cheirinia aspera (Nutt.) Rydb.—*Erysimum asperum* DC. Prairie Rocket. Common in very sandy prairie.

—**cheiranthoides** (L.) Link—*E. cheiranthoides* L. Wormseed Mustard. Common in some districts as a weed.

—**elata** (Nutt.) Rydb.—*E. elatum* Nutt. Tall Prairie Rocket. Sask.

—**inconspicua** (S. Wats.) Rydb.—*E. parviflorum* Nutt. Small-flowered Rocket. Common on dry prairie and in cultivated fields.

Conringia orientalis (L.) Dum. Hare's-ear Mustard. Common as a weed in some districts.

Diplotaxis muralis DC. Sand Rocket. Beaverdale; Fenwood (Wm. Shevkenek); Saskatoon.

Draba lutea Gilib.—*D. nemorosa* L. var. *leiocarpa* Lindb. Yellow Whitlow-grass. Common on both virgin prairie and cultivated fields in certain areas.

—**nemorosa** L. Wood Whitlow-grass. Cypress Hills, Maple Creek; Moose Jaw (T. N. Willing).

Eruca sativa Lam. Garden Rocket. Indian Head, Regina, Semans.

Erucastrum gallicum (Willd.) O. E. Schulz Dog Mustard. Widespread and fairly common in some districts.

Hesperis matronalis L. Dame's Rocket. Swift Current. Probably not established.

Lepidium Bourgeauanum Thellung—*L. densiflorum* Schrad. var. *Borgeauanum* (Thellung)? Pepper-grass. (Sask.)

—**campestre** (L.) R. Br. Field Pepper-grass. Range.

—**densiflorum** Schrad.—*L. apetalum* A. Gray Common Pepper-grass. Very common weed in cultivated fields and waste places.

—**divergens** Osterh. Divergent Pepper-grass. Swift Current.

—**perfoliatum** L. Perfoliate Pepper-grass. Swift Current.

—**ramosissimum** A. Nels. Branched Pepper-grass. Swift Current.

Lesquerella arenosa (Richards.) Rydb. Sand Bladder-pod. Common on dry hillsides.

—**ludoviciana** (Nutt.) S. Wats. Bladder-pod. Saskatoon.

—**prostrata** A. Nels. Prostrate Bladder-pod. (Sask.)

—**rosea** Greene Pink Bladder-pod. (Sask.)

—**spatulata** Rydb. Spatulate Bladder-pod. Swift Current, Val Marie.

—**versicolor** Greene Varying Bladder-pod. (Sask.)

Malcomia africana (Willd.) R. Br. African Stock. Swift Current. Escaped from cultivation. Probably not established.

Nasturtium officinale R. Br. Water Cress. Cypress Hills.

Neslia paniculata (L.) Desv. Ball Mustard. Common in cultivated fields in some districts.

Physaria didymocarpa (Hook.) A. Gray Double Bladder-pod. (Sask.)

Rapistrum perenne (L.) All. Perennial Mustard. Grenfell.

Rorippa austriaca Besser Austrian Cress. Greenstreet.

—**columbiae** (Suksd.) Howell Spreading Yellow-cress. Kindersley (Mrs. L. F. Schmidt).

—**hispida** (Desv.) Britt.—*Radicula hispida* (Desv.) Britt. Hairy Yellow-cress. Common in wet places.

—**palustris** (L.) Besser—*R. palustris* (L.) Moench Marsh Yellow-cress. Common in wet places.

—**sinuata** (Nutt.) Hitchc.—*R. sinuata* (Nutt.) Greene Spreading Yellow-cress. (Sask.)

—**sylvestris** (L.) Besser—*R. sylvestris* (L.) Druce Creeping Yellow-cress. Greenstreet.

Sinapis arvensis L.—*Brassica arvense* (L.) Kuntze—*B. Kaber* (DC.) Wheeler var. *pinnatifida* (Stokes) Wheeler Wild Mustard. Very common in cultivated fields in some districts, especially on clay soils.

Sisymbrium altissimum L.—*Norta altissima* (L.) Britt. Tumble Mustard. Common in grain fields and waste places.

—**Loeselii** L. Tall Hedge Mustard. Carlyle, Edenwold, Kendal, Lebret, Saskatoon, Stony Beach.

Sophia brachycarpa (Richards.) Rydb—*Descurainia pinnata* (Walt.) Britt. var. *brachycarpa* (Richards.) Detling Short-fruited Tansy-mustard. Elbow (G. F. Ledingham); Langham, Saskatoon, Swift Current.

—**filipes** (A. Gray) Heller—*D. pinnata* var *filipes* (Gray) Detling —*Sisymbrium incisum* Engelm. var. *filipes* A. Gray Green Tansy-mustard. Swift Current, Val Marie.

—**multifida** Gilib.—*D. pinnata* var. *typica* Detling—*Sisymbrium Sophia* L. Flixweed. Very common as a weed in grain fields and waste places.

—**Richardsoniana** (Sweet) Rydb.—*D. Richardsonii* Schulz var. *typica* Detling—*Sisymbrium incisum* Engelm. var. *Hartwegianum* (Fourn.) Wats. Grey Tansy Mustard. Fairly common in grain fields and waste places.

Sophia spp. are now regarded as belonging to the genus *Descurainia*. Detling revised the North American species of this genus (Am. Midland Nat. 22-481-520. 1939).

Thlaspe arvense L. Penny Cress. Very common weed on the heavier soils.

Turritis glabra L.—*Arabis glabra* (L.) Bernh. (Rollins, Rhodora 43:315. 1941). Tower Mustard. Bjorkdale (John Laycock); Cypress Hills, Meota, Saskatoon, Wallwort.

CAPPARIDACEAE. Caper Family.

Peritoma serrulatum (Pursh) DC. Indian Pink. Rather common in sandy areas along roadsides and in waste places.

Polanisia graveolens Raf. Clammy-weed. Gull Lake, Island Lake, and Long Lake (Macoun).

—**trachysperma** T. and G. Clammy-weed. Katepwa, Maple Creek; Saskatchewan Landing (A. C. Budd).

RESEDACEAE. Mignonette Family.

Reseda alba L. White Cut-leaved Mignonette. Brock.

—**lutea** L. Yellow Cut-leaved Mignonette. Grenfell; Spy Hill (Geo. Welch); Swift Current.

DROSERACEAE. Sundew Family.

Drosera intermedia Hayne Spatulate-leaved Sundew. Prince Albert.

—**linearis** Goldie Slender-leaved Sundew. McKague, Prince Albert.

—**longifolia** L.—*D. anglica* Huds. Oblong-leaved Sundew. Athabaska Lake region; McKague, Prince Albert.

—**rotundifolia** L. Round-leaved Sundew. Athabaska Lake region; McKague, Prince Albert, Speddington, Waskesiu Lake.

SARRACENIACEAE. Pitcher-plant Family.

Sarracenia purpurea L. Pitcher Plant. Athabaska Lake region; McKague, Prince Albert. Reported from St. Laurent Ferry near Duck Lake by F. V. Hutton.

CRASSULACEAE. Stone-crop Family.

Sedum Aizoon L. Stone-crop. Saskatoon. Not established.

—**Douglasii** Hook. Douglas' Stone-crop. East end of Cypress Hills (Macoun).

—**stenopetalum** Pursh Narrow-petalled Stone-crop. Cypress Hills.

PARNASSIACEAE. Grass of Parnassus Family.

Parnassia americana Muhl. American Grass of Parnassus. Prince Albert. Found in a cold bog.

—**Kotzebuei** Cham. and Schl. Kotzebue's Grass of Parnassus. Athabaska Lake region; Axis Lake, near east end of Athabaska Lake (R. S. Campbell).

—**montanensis** Fern. and Rydb. Mountain Grass of Parnassus. (Sask.)

—**palustris** L. Northern Grass of Parnassus. Common in wet places in the northern half of the settled area. Also collected at Swift Current.

—**parviflora** DC. Small-flowered Grass of Parnassus. Range.

SAXIFRAGACEAE. Saxifrage Family.

Chondrosea Aizoon (Jacq.) Haw. Livelong Saxifrage. (Sask.)

Chrysosplenium americanum Schw. Golden Saxifrage. (Sask.)

—**iowense** Rydb. Iowa Golden Saxifrage. Torch River, Waskesiu Lake.

Heuchera Richardsonii R. Br. Alum Root. Common in open spaces and around bluffs. Athabaska Lake (Dr. D. S. Rawson). According to Fernald, the name *H. hispida* Pursh has been wrongly applied to the common Alum Root of the prairies. *H. hispida* is an eastern species occurring in a restricted area in the Virginias (Rhodora, 35:111. April, 1935).

Leptasea tricuspidata (Retz.) Haw.—*Saxifraga tricuspidata* Retz. Three-toothed Saxifrage. Athabaska Lake region; Reeve's Lake near Athabaska Lake (R. S. Campbell).

Lithophragma bulbifera Rydb. Star flower. Robsart.

Micranthes rhomboidea (Greene) Small Rhomboid-leaved Saxifrage. Cypress Hills.

Mitella nuda L. Bishop's Cap. Common and widespread in cold wet places in woods. Athabaska Lake region.

GROSSULARIACEAE. Gooseberry Family.

Chrysobotrya aurea (Pursh) Rydb. Golden Currant. Cypress Hills.

Grossularia hirtella (Michx.) Spach. Low Wild Gooseberry. Bjorkdale, Madge Lake, McKague; Moose Range (Percy Wright); Wallwort.

—**oxyacanthoides** (L.) Mill. Northern Gooseberry. Common in woods and bluffs. Difficult to distinguish from the following species.

—**setosa** (Lindl.) Cov. and Britt. Bristly Gooseberry. Common. Sometimes found in shallow depressions on the open prairie.

Limnobotrya lacustris (Pers.) Rydb.—*Ribes lacustre* (Pers.) Poir. Swamp Gooseberry. Rather common in swamps northward.

Ribes americanum Mill.—*R. floridum* L'Her. Wild Black Currant. Common on moist soil in or near woods.

—**glandulosum** Weber—*R. prostratum* L'Her. Fetid Currant. Found occasionally in damp woods.

—**hudsonianum** Richards. Northern Black Currant. Rather common in damp woods.

—**triste** Pall. Swamp Red Currant. Fairly common in wet woods and around swamps.

ROSACEAE. Rose Family.

Agrimonia striata Michx. Agrimony. McKague; Meadow Lake (J. I. Clark); Oxbow, Saskatoon.

Argentina Anserina (L.) Rydb.—*Potentilla Anserina* L. Silverweed. Common in low wet places.

—**argentea** Rydb. Hoary Silverweed. Fairly common in wet places.

Chamaerhodos Nuttallii Pickering Chamaerhodos. Fairly common on dry hills and sandy prairie.

Comarum palustre L.—*Potentilla palustris* (L.) Scop. Marsh Cinquefoil. Athabaska Lake; Crean Lake; Crooked River (John Laycock); McKague, Waskesiu Lake.

Dasiphora fruticosa (L.) Rydb. *Potentilla fruticosa* L. Shrubby Cinquefoil. Common in wet places northward. Occurs on the bench land in the Cypress Hills. Also collected at Lac Pellatier.

Drymocallis agrimonioides (Pursh) Rydb.—*Potentilla arguta* Pursh White Cinquefoil. Rather common on moist prairie. Athabaska Lake region.

Fragaria americana (Porter) Britt.—*F. vesca L.* var. *americana* Porter American Wood Strawberry. Emma Lake, Kenosee Lake, McKague.

—**canadensis** Michx. Northern Wild Strawberry. Range.

—**glauca** (S. Wats.) Rydb. Smooth Wild Strawberry. Probably the commonest species in this province.

—**pauciflora** Rydb. Few-flowered Wild Strawberry. Attica, Cypress Hills, Muenster, Sutherland, Swift Current.

Geum macrophyllum Willd. Large-leaved Avens. Cypress Hills, Swift Current.

—**perincisum** Rydb. *G. macrophyllum* var. *perincisum* (Rydb.) Raup (Rhodora, 33: 172-176. 1931). Cut-leaved Avens. Emma Lake, McKague, Montreal Lake, Prince Albert Nat. Park, Silver Park, Swift Current, Wadena, Wakaw, Wallwort.

—**rivale** L. Purple Avens. Cypress Hills, McKague, Torch River.

—**strictum** Soland. Yellow Avens. Common on moist prairie near bluffs.

Potentilla argyrea Rydb. Silvery Potentilla. Bienfait, Cypress Hills, Mortlach, Pike Lake, Saskatoon, Wingello.

—**atrovirens** Rydb. Dark-green Potentilla. (Sask.)

—**biennis** Greene Biennial Potentilla. (Sask.)

—**bipinnatifida** Dougl. Plains Cinquefoil. Widespread and fairly common on open prairie.

—**brunnescens** Rydb. Brown Potentilla. Swift Current.
—**camporum** Rydb. Prairie Cinquefoil. Widespread and fairly common on moist prairie.
—**concinna** Richards. Early Cinquefoil. Common on dry prairie and hills.
—**diversifolia** Lehm. Varying-leaved Cinquefoil. (Sask.)
—**divisa** Rydb. Cut-leaved Cinquefoil. Regina (T. N. Willing).
—**effusa** Dougl. Branched Cinquefoil. Cypress Hills, Odessa.
—**filipes** Rydb. Slender-stemmed Cinquefoil. Range.
—**flabelliformis** Lehm. Silky-leaved Cinquefoil. Bruno, Carmel; Chaplin (Annie Hobberstad); Pike Lake, Saskatoon, Viscount; Wordsworth (E. T. Reeder).
—**glabrella** Rydb. Glabrate Cinquefoil. Humboldt, Indian Head, Saskatoon; Wordsworth (E. T. Reeder).
—**glaucophylla** L. Smooth-leaved Cinquefoil. Cypress Hills.
—**gracilis** Doug. Graceful Cinquefoil. Cypress Hills.
—**Hippiana** Lehm. Woolly Cinquefoil. Cadillac, Gainsborough, Hudson Bay Jnctn., Macdowall, Saskatoon.
—**Hookeriana** Lehm. Hooker's Cinquefoil. Leslie, Saskatoon.
—**juncunda** A. Nels. Showy Cinquefoil. Cypress Hills.
—**lasiodonta** Rydb. Woolly-toothed Cinquefoil. (Sask.)
—**millegrana** Engelm. Diffuse Cinquefoil. Duval, Mortlach, Pike Lake, Prudhomme, Stewart Valley.
—**monspeliensis** L. Rough Cinquefoil. Common around moist meadows. Athabaska Lake region.
—**Nicolletii** (S. Wats.) Sheldon. Nicollet's Cinquefoil. Saskatoon.
—**nivea** L. Snowy Cinquefoil. Athabaska Lake region.
—**Nuttallii** Lehm. Nuttall's Cinquefoil. Cypress Hills, Indian Head, McKague, Saskatchewan Landing, Saskatoon, Watrous.
—**pectinata** Raf. Coast Cinquefoil. Athabaska Lake region.
—**pennsylvanica** L. Pennsylvania Cinquefoil. Athabaska Lake region; Chaplin (Annie Hobberstad); Indian Head, Hudson Bay Jnctn.
—**pentandra** Engelm. Five-stamened Cinquefoil. (Sask.)
—**plattensis** Nutt. Low Cinquefoil. Widespread and fairly common.
—**platyloba** Rydb. Broad-lobed Cinquefoil. Macdowall, Saskatoon.
—**pulcherrima** Lehm. Beautiful Cinquefoil. Indian Head; Wordsworth (E. T. Reeder).
—**quinquefolia** Rydb.—*P. nivea* L. var. *pentaphylla* Lehm. Five-fingered Cinquefoil. Athabaska Lake region.
—**rivalis** Nutt. Brook Cinquefoil. (Sask.)
—**strigosa** Pall. Hairy Cinquefoil. Common on dry prairie.
—**viridescens** Rydb. Green Cinquefoil. Brock, Cadillac, Muenster, Quill Lake, Saskatoon, Sclanders.
Rosa acicularis Lindl.—*R. Borgeauiana* Crep. (Bot. Gaz. 96: 250. Dec., 1934). Prickly Rose. Common in and around bluffs.
—**alcea** Greene—*R. subglauca* Rydb.—*R. Lunellii* Greene (Bot. Gaz. 96:250. Dec., 1934). Prairie Rose. Common on open prairie.
—**blanda** Ait. Smooth Rose. Indian Head, Saskatoon. (Specimens were assigned to this species with some doubt.)
—**Macounii** Greene Macoun's Rose. Common in and around bluffs. Very common in sandhill areas in the southwest.
—**suffulta** Greene Pubescent Rose. McKague, Swift Current.
—**Woodsii** Lindl. Wood's Rose. Cypress Hills, McKague, Saskatoon.
Rubus acaulis Michx.—*R. acticus* L. (Bailey, Gentes Herbarium, 5:1:27-29. 1941). Stemless Raspberry. Common northward in cool damp woods.
—**Chamaemorus** L. Cloudberry. Athabaska Lake (R. S. Campbell); Crooked River, Prince Albert, Tisdale, Waskesiu Lake, White Fox.

—**melanolasius** Focke Wild Red Raspberry. Common in and around bluffs and woods. Bailey determined specimens of wild red raspberry from Saskatchewan as *R. ideus* L. var. *canadensis* Richards. and *R. ideus* L. var. *strigosus* (Michx.) Maxim.

—**paracaulis** Bailey McKague. This is a new species (l.c. page 33).

—**pubescens** Raf.—*R. triflorus* Richards. Dewberry. Common in bluffs and woods.

Sibbaldiopsis tridentata (Soland) Rydb.—*Potentilla tridentata* Soland Three-toothed Cinquefoil. Athabaska Lake (R. S. Campbell); Crutwell, Emma Lake, Meadow Lake, Pre Ste. Marie, Prince Albert, Waskesiu Lake.

Sieversia ciliata (Pursh) G.Don. Ciliate Avens. (See note under *S. triflora*).

—**triflora** (Pursh) R.Br.—*Geum triflorum* Pursh Three-flowered Avens. Common on open prairie and hills. Athabaska Lake (Dr. D. S. Rawson). Collections of this and the preceding species vary so much in pubescence, and in shape and toothing of the leaflets, that it seems preferable to regard them as one variable species.

Sorbaria sorbifolia A. Braun—*Schizonotus sorbifolius* (L.) Lindl. Ash-leaved Spiraea. Clearwater Lake. A native of Asia, probably escaped from cultivation.

Spiraea alba Du Roi Narrow-leaved Meadow-sweet. Common in shallow depressions on the prairie.

—**latifolia** (Ait.) Borkh. Broad-leaved Meadow-sweet. (Sask.)

—**lucida** Dougl. Shining-leaved Meadow-sweet. Cypress Hills.

MALACEAE. Apple Family.

Amelanchier alnifolia Nutt. Saskatoon. Very common on the sides of coulees, on river banks, and in bluffs and woods. In woods, it may grow much taller than Rydberg indicates.

—**canadensis** (L.) Medic. Service-berry. Range.

—**Carrii** Rydb. Carr's Service-berry. Goodwater.

—**humilis** Wieg. Low Service-berry. Range.

Crataegus chrysocarpa Ashe Round-leaved Hawthorn. Rather common.

—**succulenta** Schrad. Long-spined Hawthorn. Cypress Hills, Saskatoon.

Sorbus scopulina Greene Western Mountain-ash. Cypress Hills (H. R. Robinson), Mistatim (G. O. James).

AYMGDALACEAE. Plum Family.

Prunus Besseyi Bailey Western Sand-cherry. Hudson Bay Jnctn.

—**melanocarpa** (A. Nels.) Rydb. Black-fruited Choke-cherry. Common, especially on light sandy soil.

—**nana** Du Roi Red-fruited Choke-cherry. Range.

—**pennsylvanica** L.f. Pin-cherry. Common in some areas. Sometimes cultivated as an ornamental shrub.

FABACEAE. Pea Family.

Acmispon americanus (Nutt.) Rydb.—*Hosackia americana* (Nutt.) Piper Prairie Birdsfoot Trefoil. Gainsborough (H. Sweet).

Amorpha nana Nutt. False Indigo. (Sask.)

Astragalus agrestis Dougl. Field Milk-vetch. (Sask.)

—**canadensis** L.—*A. carolinianus* L. Canadian Milk-vetch. Common in moderately moist spots on the prairie.

—**goniatus** Nutt.—*A. hypoglottis* Richards. Purple Milk-vetch. Very common.

—**striatus** Nutt.—*A. adsurgens* Pall. Ascending Milk-vetch. Rather common on dry prairie.

Atelophragma aboriginum (Richards.) Rydb. Atelophragma. Cypress Hills (Macoun); Qu'Appelle.

—**alpinum** (L.) Rydb.—*Astragalus alpinus* L. Northern Atelophragma. Assiniboia; Pelly (R. J. and G. F. Ledingham); Preeceville (T. N. Willing).

—**Herriotii** Rydb. Herriot's Milk-vetch. Saskatoon (Determined by F. J. Hermann, Univ. of Michigan).

Batidophaca lotiflora (Hook.) Rydb.—*Astragalus lotiflorus* Hook. Low Milk-vetch. Elbow, Webb.

Caragana arborescens Lam. Caragana. Cultivated extensively as a hedge or ornamental shrub. Has escaped and become established to some extent.

Cnemidophacos flavus (Nutt.) Rydb. Yellow Milk-vetch. Saskatchewan Landing. (Reported with some doubt.)

—**pectinatus** (Hook.) Rydb.—*Astragalus pectinatus* (Hook.) Dougl. Narrow-leaved Milk-vetch. Common on dry prairie and hills.

Diholcos bisulcatus (Hook.) Rydb.—*Astragalus bisulcatus* (Hook.) A. Gray Bisulcate Milk-vetch. Common. Indicates the presence of selenium in the soil in some cases.

Geoprumnon crassicarpum (Nutt.) Rydb.—*Astragalus caryocarpus* Ker Large-fruited Buffalo-bean. (Sask.)

—**succulentum** (Richards.) Rydb.—*A. succulentus* Richards. Succulent Buffalo-bean. Found occasionally on prairie.

Glycyrrhiza lepidota (Nutt.) Pursh Wild Licorice. Very common on medium low prairie.

Hedysarum americanum (Michx.) Britt. American Hedysarum. Very common.

—**boreale** Nutt. Northern Hedysarum. (Sask.)

—**cinerascens** Rydb. Silvery Hedysarum. Bengough, Biggar, Eastend, Elbow, Indian Head, Lac Pelletier, Ravenscrag, Yellow Grass.

—**Mackenzii** Richards. Mackenzie's Hedysarum. West of Moose Mntn., Cypress Hills, Hand Hills (Macoun); Langham, Le Cole Falls. According to Macoun, the root was eaten by the Indians.

Homalobus caespitosus Nutt. Tufted Milk-vetch. Cypress Hills (Macoun); Eatonia, Govanlock.

—**stipitatus** Rydb. Stipitate Milk-vetch. (Sask.)

tenellus (Pursh) Britt.—*Astragalus tenellus* Pursh Loose-flowered Milk-vetch. Fairly common.

—**vexilliflexus** (Sheld.) Rydb. Few-flowered Milk-vetch. Summit of Cypress Hills (Macoun).

Kentrophyta montana Nutt. Prickly Milk-vetch. Borders of Stinking Lake north of Cypress Hills in sand (Macoun); Webb.

Lathyrus ochroleucus Hook. Cream-colored Vetchling. Common in and around bluffs.

—**palustris** L. Marsh Vetchling. Canora, McKague; Tisdale (H. Hooper).

—**venosus** Muhl. Wild Pea-vine. Common northward in and around woods.

Lupinus argenteus Pursh Silvery Lupine. Cypress Hills.

—**Kingii** S. Wats. King's Lupine. Kindersley (Macoun).

—**leucopsis** Agardh. Silky Lupine. Maple Creek.

—**Macounii** Rydb. Macoun's Lupine. Cypress Hills.

—**pusillus** Pursh Small Lupine. Beverley (Vernon Metherall).

Medicago falcata L. Yellow Lucerne. Hudson Bay Jnctn., Saskatoon. Escaped from cultivation.

—**lupulina** L. Black Medic. Indian Head, Saskatoon. An imported weed.

—**sativa** L. Alfalfa. Cultivated extensively and escaped in many places.

Melilotus alba Desv. Sweet Clover. Cultivated extensively and escaped in many places. An excellent honey plant.

—**officinalis** (L.) Lam. Yellow Sweet Clover. Cultivated as a pasture plant and escaped in many places.

Orophaca caespitosa (Nutt.) Britt. Caespitose Milk-vetch. Widely distributed; found mainly on dry hilltops.

Oxytropis albertina (Greene) Rydb. Alberta Loco-weed. (Sask.)

—**deflexa** (Pall.) DC.—*Aragallus deflexus* (Pall.) Heller Flexuose Loco-weed. Fairly common on moist prairie near woods or bluffs.

—**glabrata** (Hook.) A. Nels. Glabrate Loco-weed. Fairly common on the prairie.

—**gracilis** (A. Nels.) K. Schum. —*A. gracilis* A. Nels. Late Yellow Loco-weed. Common. Blooms in July.

—**Lambertii** Pursh Lambert's Loco-weed. Bienfait.

—**Macounii** (Greene) Rydb.—*A. spicatus* (Hook.) Rydb. Early Yellow Loco-weed. Common on dry prairie and hills. Blooms in May.

—**Richardsonii** (Hook.) K. Schum. Woolly Loco-weed. Balcarres, Drake, Gillespie, Kelliher, Oxbow, Viscount. Very similar to *A. galioides* Greene.

—**splendens** Dougl.—*A. splendens* (Dougl.) Greene Showy Loco-weed. Bladworth, Saskatoon.

—**villosa** (Rydb.) K. Schum. Hairy Yellow Loco-weed. Specimens from Cypress Hills and Prince Albert seem to belong to this species.

Pediomelum esculentum (Pursh) Rydb.—*Psoralea esculenta* Pursh Indian Bread-root. Fairly common on dry prairie.

Petalostemon candidus (Willd.) Michx.—*Petalostemum candidum* (Willd.) Michx. White Prairie-clover. Common on dry prairie and hills.

—**oligophyllus** (Torr.) Rydb.—*Petalostemum oligophyllum* (Torr.) Rydb. Slender White Prairie-clover. A specimen from Maple Creek appeared to belong to this species.

—**purpureus** (Vent.) Rydb.—*Petalostemum purpureum* (Vent.) Rydb. Purple Prairie-clover. Common on prairie.

—**villosus** Nutt.—*Petalostemum villosum* Nutt. Hairy Prairie-clover. (Sask.)

Phaca americana (Hook.) Rydb. Arctic Milk-vetch. Cypress Hills, Kenosee Lake, McKague, Turtle Lake.

—**elatiocarpa** (Sheld.) Rydb. Low Milk-vetch. (Sask.)

Pisophaca flexuosa (Dougl.) Rydb.—*Astragalus flexuosus* Dougl. Flexile Milk-vetch. Fairly common, at least in open spaces in bluffy areas.

Psoralidium argophyllum (Pursh) Rydb.—*Psoralea argophylla* Pursh Silver-leaved Psoralea. Fairly common on prairie.

—**lanceolatum** (Pursh) Rydb.—*P. lanceolata* Pursh Lance-leaved Psoralea. Fairly common on sandy prairie.

Thermopsis arenosa A. Nels. Golden Bean. (Sask.)

—**rhombifolia** (Nutt.) Richards. Golden Bean. Very common and widespread.

Tium Drummondii (Dougl.) Rydb.—*Astragalus Drummondii* Dougl. Drummond's Milk-vetch. Battleford, Climax, Cochin, Cypress Hills, Langham.

—**racemosum** (Pursh) Rydb.—*A. racemosus* Pursh Racemose Milk-vetch. Moose Jaw Creek (Macoun); Saskatoon (T. N. Willing).

Trifolium hybridum L. Alsike Clover. Cultivated to a limited extent but widely distributed along roads in wooded areas where the soil is moist.

—**pratense** L. Red Clover. Rarely seen either cultivated or escaped.

—**procumbens** L. Low Yellow Clover. Prairie River. An imported species.

—**repens** L. White Clover. Used in lawn mixtures and occasionally in pastures. Escaped in some places.

Trigonella coerulea Ser. Sweet Trefoil. Saskatoon, Swift Current. Growing as a weed in cultivated grass.

Vicia americana Muhl. American Vetch. Common around bluffs. Hard to distinguish from *V. oregana.*

—**Cracca** L. Tufted Vetch. Bruno; Maple Creek (T. N. Willing); Peesane, Saskatoon. Imported species.

—**oregana** Nutt. Oregon Vetch. Common around bluffs. Very similar to *V. americana.*

—**sparsifolia** Nutt. Narrow-leaved Vetch. Very common on dry prairie. Athabaska Lake (Dr. D. S. Rawson).

—**trifida** Dietr. Pubescent Vetch. Katepwa Lebret, Saskatoon.

Xylophacos missouriensis (Nutt.) Rydb. –*Astragalus missouriensis* Nutt. Missouri Milk-vetch. Beaver Creek, Dundurn, Fort Qu'Appelle, Langham, Saskatchewan Landing, Saskatoon.

—**Purshii** (Dougl.) Rydb. Pursh's Milk-vetch. Pike Lake, Sutherland, Watrous.

GERANIACEAE. Geranium Family.

Erodium cicutarium (L.) L'Her. Storkbill. Kinistino, Regina. Occurs as a weed in waste places.

Geranium Bicknellii Britt. Bicknell's Wild Geranium. Common in wooded and semi-wooded areas.

—**carolinianum** L. Carolina Wild Geranium. Kenosee Lake, Kinistino.

—**incisum** Nutt. Cut-leaved Geranium. Killdeer.

—**Richardsonii** Fisch & Trautv.—*G. albiflorum* Hook. Richardson's Wild Geranium. In the borders of coulees and in thickets in the southern prairie region (Macoun); Cypress Hills.

—**strigosum** Rydb. Strigose Geranium. (Sask.)

OXALIDACEAE. Wood-sorrel Family.

Oxalis Acetosella L. White Wood-sorrel. (Sask.)

Xanthoxalis Bushii Small –*Oxalis Bushii* Small Bush's Yellow Wood-sorrel. Meadow Lake; Wordsworth (E. T. Reeder).

—**corniculata** (L.) Small—*O. corniculata* L. Yellow Procumbent Wood-sorrel. McKague; Sidewood (K. W. Gordon).

—**stricta** (L.) Small—*O. stricta* L. Upright Yellow Wood-sorrel. North Battleford; Portal (T. N. Willing); Swift Current, Trossachs.

LINACEAE. Flax Family.

Cathartolimum compactum (A. Nels.) Small—*Linum compactum* A. Nels. Compact Yellow Flax. Bengough, Great Sand Hills, Saskatoon, Swift Current.

—**rigidum** (Pursh) Small—*L. rigidum* Pursh Large-flowered Yellow Flax. Fairly common on dry prairie.

—**sulcatum** (Riddell) Small—*L. sulcatum* Riddell Grooved Yellow Flax. Beaver Creek, Saskatoon.

Linum Lewisii Pursh Lewis' Wild Flax. Common on dry prairie and hills.

—**pratense** (Norton) Small Meadow Wild Flax. Brock, Dana, Indian Head, Muenster, Saskatoon.

BALSAMINACEAE. Jewel-weed Family.

Impatiens biflora Walt. Spotted Touch-me-not. Cypress Hills, Kamsack, Madge Lake, McKague, Pike Lake, Wallwort, Waskesiu Lake. Grows in moist shady places.

—**occidentalis** Rydb.—*I. noli-tangere* L. Western Touch-me-not. Golburn, Montreal Lake, Waskesiu Lake.

POLYGALACEAE. Milkwort Family.

Polygala alba Nutt. White Milkwort. Bengough, Ceylon, Roche Percee.

—**paucifolia** Willd. Fringed Milkwort. McKague, Shellbrook.

—**Senega** L. Seneca Root. Common in semi-wooded areas. The roots are used for medicinal purposes.

—**Senega** L. var. *latifolia* T. & G. McLean (B. J. Sallans). This specimen differs in leaf size and shape and in having the stems branched. (See Gray's Manual).

EUPHORBIACEAE. Spurge Family.

Chamaesyce glyptosperma (Engelm.) Small—*Euphorbia glyptosperma* Engelm. Ridge-seeded Spurge. Abbey; Moose Jaw (G. F. Ledingham); Pike Lake, Saskatoon, Swift Current.

—**serpyllifolia** (Pers.) Small—*E. serpyllifolia* Pers. Thyme-leaved Spurge. Bracken, Bulyea, Cypress Hills, Indian Head, Langbank, Maple Creek, Swift Current.

Galarrhoeus virgata (Wald.andKit.) nova comb.—*Euphorbia virgata* Waldst. and Kit. Leafy Spurge. Battleford, Caron, Indian Head, Maidstone, Marriott, Rouleau, Wimmer. This weed is very difficult to eradicate. According to some authorities, *E. Esula* (L.) Hill does not occur in this area (See Rhodora 39:49. 1937).

CALLITRICHACEAE. Water Starwort Family.

Callitriche autumnalis L. Northern Water-starwort. Pools in Wascana Creek near Regina (Macoun). Beaver Creek, Cypress Hills, Maple Creek, Pre Ste. Marie.

—**palustris** L. Vernal Water-starwort. Common in ditches and ponds in the prairie region (Macoun). Beaver Creek, Maple Creek, Saskatoon; Wordsworth (E. T. Reeder).

EMPETRACEAE. Crowberry Family.

Empetrum nigrum L. Crowberry. Athabaska Lake, Bannock, Big River, Bjorkdale, Crooked River, Hudson Bay Junctn., Speddington.

ANACARDIACEAE. Sumach Family.

Rhus trilobata Nutt.—*R. canadensis* Marsh var. *trilobata* (Nutt.) Gray—*Schmaltzia trilobata* (Nutt.) Small Skunk Bush. Elbow of the South Saskatchewan River (Macoun); Big Muddy Valley (Wm. Shevkenek); Ceylon, Fort Qu'Appelle, Great Sand Hills, Katepwa, Saskatchewan Landing.

Toxicodendron Rydbergii (Small) Greene—*Rhus Rydbergii* Small Poison Ivy. Pike Lake; Qu'Appelle Valley (T. N. Willing); Ravenscrag, Saskatchewan Landing, Saskatoon.

ACERACEAE. Maple Family.

Acer spicatum Lam. Mountain Maple. Madge Lake; Nipawin (O. C. Furniss); Peesane.

Negundo interius (Britt.) Rydb. Manitoba Maple. Widespread in valleys along streams. Either this species, or the similar *N. Nuttallii* (Nieuwl.) Rydb.—*Acer Negundo* L., is extensively used in windbreaks on farms and as ornamental trees in the towns and cities of the province.

RHAMNACEAE. Buckthorn Family.

Rhamnus alnifolia L'Her. Alder-leaved Buckthorn. Fairly common in some areas in swamps and damp woods.

—**cathartica** L. Buckthorn. This species has escaped from cultivation in some places and become established in the native woods.

MALVACEAE. Mallow Family.

Abutilon Theophrasti Medic.—*A. Abutilon* (L.) Rusby Velvet Leaf. Biggar (Determined by R. O. Bibby).

Hibiscus Trionum L. Venice Mallow. Vanscoy (Edward Rose).

Malva crispa L. Crisp Mallow. Range.

—**parviflora** L. Small-flowered Mallow. Burgis, McKague, Riverhurst, Rosthern, Saskatoon, Speddington, Swift Current, Vonda. An introduced weed.

—**verticillata** L. Whorled Mallow. Heward (Maxine Hutchinson); North Battleford.

Sphaeralcea coccinea (Nutt.) Rydb.—*Malvastrum coccineum* (Pursh) A. Gray Scarlet Mallow. Common on dry prairie.

ELATINACEAE. Waterwort Family.

Elatine americana (Pursh) Arn. Mud Purslane. Prince Albert Nat. Park, Saskatoon; Wordsworth (E. T. Reeder).

CISTACEAE. Rock-rose Family.

Hudsonia tomentosa Nutt. Sand Heather. Cutknife, Love, Prince Albert.

VIOLACEAE. Violet Family.

Viola adunca Smith Early Blue Violet. Aberdeen, Davidson, Foam Lake, Swift Current. A white-flowered form of this species was collected at Rosthern by Geo. Stevenson.

—**canadensis** L. Canada Violet. All the specimens in our herbaria have been referred to the very similar species, *V. rugulosa*.

—**nephrophylla** Greene Northern Bog Violet. Common in and around bogs.

—**Nuttallii** Pursh. Nuttal's Yellow Violet. Langham, Fort Qu'Appelle, Saskatchewan Landing, Saskatoon, Swift Current.

—**palustris** L. Marsh Violet. Muenster, Prince Albert Nat. Park, Wallwort.

—**pedatifida** G. Don. Crow-foot Violet. Widely distributed but not very abundant.

—**Rafinesquii** Greene Field Pansy. Tisdale.

—**renifolia** A. Gray Kidney-leaved Violet. Bjorkdale, Cypress Hills, McKague, Torch River.

—**rugulosa** Greene Rydberg's Violet. Very common in and around bluffs and woods.

—**subvestita** Greene Sand Violet. Very common on prairie. Very similar to *V. adunca*, but with puberulent leaves.

—**vallicola** A. Nels. Yellow Meadow Violet. Beaver Creek, Duval, Indian Head, Piapot, Saskatoon, Watrous.

LOASACEAE. Loasa Family.

Nuttallia decapetala (Pursh) Greene—*Mentzelia decapetala* (Pursh) Urban and Gilg. Sand Lily. Cypress Hills, Eastend; Empress, on Sask. side of the border (Wm. Rowles); Roche Percee.

CACTACEAE. Cactus Family.

Neomamillaria vivipara (Nutt.) Britt. and Rose—*Coryphantha vivipara* (Nutt.) Britt. and Rose—*Mamillaria vivipara* (Nutt.) Haw. Purple Cactus. Consul, Dundurn, Elbow, Estevan, Lumsden, Matador, Outlook, Oxbow, Swift Current.

Opuntia fragilis (Nutt.) Haw. Fragile Opuntia. Cadillac, Lac Pelletier, Swift Current.

—**polyacantha** Haw. Spiny Opuntia. Battleford, Beaver Creek, Dundurn, Fort Qu'Appelle, Saskatoon, Swift Current, Vidora.

ELAEAGNACEAE. Oleaster Family.

Elaeagnus commutata Bernh.—*E. argentea* Pursh Silverberry. Very common on sandy prairie.

Shepherdia argentea Nutt.—*Lepargyraea argentea* (Nutt.) Greene Thorny Buffalo-berry. Langham, Redberry Lake, Saskatchewan Landing, Saskatoon.

—**canadensis** (L.) Nutt.—*L. canadensis* (L.) Greene Low Buffalo-berry. Fairly common in park and wooded areas.

ONAGRACEAE. Evening-primrose Family.

Anogra Nuttallii (Sweet) A. Nels.—*Oenothera pallida* Lindl. Nuttall's White Evening Primrose. Fairly common on sandy soil.

Boisduvallia glabella (Nutt.) Walp. Boisduvallia. (Sask.)

Chamaenerion latifolium (L.) Sweet Broad-leaved Fire-weed. Range.

—**spicatum** (Lam.) S. F. Gray—*C. angustifolium* (L.) Scop.—*Epilobium angustifolium* L. Fireweed. Common in park and wooded areas.

Circaea alpina L. Small Enchanter's Nightshade. Crooked River, Emma Lake, Indian Head, McKague, Turtle Lake, Waskesiu Lake.

Epilobium adenocaulon Haussk. Northern Willow-herb. Common in sloughs and bogs.

—**adenocladon** (Haussk.) Rydb.—*E. paniculatum* Nutt. forma *adenocladon* Haussk. Narrow-leaved Willow-herb. Fairly common in open prairie. Our specimens do not have a distinctly 4-lobed stigma nor tawny coma but answer the description in other respects.

—**americanum** Haussk. American Willow-herb. A collection from Beaver Creek appears to belong to this species.

—**Drummondii** Haussk. Drummond's Willow-herb. (Sask.)

—**glandulosum** Lehm. Glandular Willow-herb. (Sask.) Britton and Brown list this species as synonymous with *E. adenocaulon.*

—**lineare** Muhl.—*E. densum* Raf. Linear-leaved Willow-herb. Widespread and fairly common around sloughs and bogs.

—**paniculatum** Nutt. Panicled Willow-herb. Common near the source of the Qu'Appelle and on the southwestern plains (Macoun). It seems probable that this refers to the species we have listed as *E. adenocladon.*

—**wyomingense** A. Nels. Slender Willow-herb. (Sask.)

Gaura coccinea Pursh Butterfly-weed. Common on dry open prairie and hills.

—**glabra** Lehm. Smooth Butterfly-weed. Saskatoon, Val Marie.

Lavauxia flava A. Nels.—*Oenothera flava* (A. Nels). Garrett Yellow Lavauxia. Naseby, Regina, Saskatoon, Swift Current.

Meriolix serrulata (Nutt.) Walp.—*Oenothera serrulata* Nutt. Meriolix. Fairly common on dry plains and hills.

Oenothera biennis L. Common Evening Primrose. Brock.

—**muricata** L. Yellow Evening Primrose. Common on the interior plains (Macoun); Prince Albert.

—**strigosa** (Rydb.) Mack. and Bush—*O. biennis* L. var. *canescens* T. and G. Yellow Evening Primrose. Canora, Langbank, Marriott, Swift Current, Val Marie, Yonkers.

Pachylophus caespitosus (Nutt.) Raim. Rock Rose. Consul, Drinkwater, Matador, Plenty, Swift Current, Wiwa Hill.

—**montanus** (Nutt.) A. Nels. Mountain Rose. Admiral (Miss Florence Kirbyson); Estevan, Maple Creek, Swift Current, Twelve-mile Lake.

Sphaerostigma andinum (Nutt.) Walp. Sphaerostigma. (Sask.)

Taraxia breviflora (T. and G.) Nutt.—*Oenothera breviflora* T. and G. Taraxia. Sidewood.

HALORAGIDACEAE. Water-milfoil Family.

Hippuris vulgaris L. Mare's-tail. Common in streams and sloughs.

Myriophyllum pinnatum (Walt.) B.S.P.—*M. scabratum* Michx. Pinnate Water-milfoil. Wordsworth (E. T. Reeder).

—**spicatum** L. Spiked Water-milfoil. Common in sloughs, lakes, and streams.

—**verticillatum** L. Whorled Water-milfoil. Prince Albert (O. C. Furniss).

ARALIACEAE. Ginseng Family.

Aralia nudicaulis L. Wild Sarsaparilla. Common in rich soil in bluffs and woods.

AMMIACEAE. Carrot Family.

Atenia Gairdneri H. and A. Gairdner's Squaw-root. In the dry beds of streams 50 miles south of Battleford (Macoun).

—**montana** (Blankinship) Rydb. Mountain Squaw-root. Cypress Hills.

Carum Carui L. Caraway. Escaped from cultivation in some places.

Cicuta bulbifera L. Bulb-bearing Water-hemlock. Athabaska Lake region; Archerwill, McKague, Prince Albert Nat. Park, Saltcoats.

—**occidentalis** Greene *C. maculata* L. Western Water-hemlock. Common in wet places. Poisonous to live stock.

Cogswellia foeniculacea (Nutt.) Coult. and Rose Hairy Cous. Cypress Hills and Moose Mountain (Macoun).

—**macrocarpa** (Nutt.) M. E. Jones Large-fruited Cous. Cypress Hills, McKague, Robsart, Saskatchewan Landing, Saskatoon.

—**villosa** (Raf.) Schultes –*Lomatium villosum* Raf. Hairy-fruited Cous. Common on dry hills.

Cymopterus acaulis (Pursh) Rydb. Cymopterus. Fort Qu'Appelle, Langham, Moose Jaw, Oxbow, Saskatchewan Landing, Saskatoon, Swift Current, Wyatt.

Heracleum lanatum Michx. Cow Parsnip. Common in moist woods.

Musineon angustifolium Nutt. Narrow-leaved Musineon. (Sask.)

—**divaricatum** (Pursh) Nutt. Leafy Musineon. Langham, Lebret; Moose Mountain and Swift Current (Macoun); Regina, Saskatoon.

—**trachyspermum** Nutt. Rough-seeded Musineon. Chamberlain, Langham, Lumsden, Moose Jaw, Saskatchewan Landing.

Osmorrhiza longistylis (Torr.) DC.—*Washingtonia longistylis* (Torr.) Britt. Smooth Sweet Cicely. Katepwa; Kennedy (Mrs. M. M. Connell); Pike Lake, Swift Current; Wordsworth (E. T. Reeder).

—**obtusa** (Coult. and Rose) Fern.—*W. obtusa* Coult. and Rose Blunt-fruited Sweet Cicely. Cypress Hills, McKague.

Pastinaca sativa L. Parsnip. Swift Current, Waldheim. Escaped from cultivation.

Sanicula marilandica L. Snake-root. Common in woods on rich moist soil.

Sium cicutaefolium Schrank Water Parsnip. Common in sloughs and other wet places. Sometimes confused with *Cicuta occidentalis*.

Zizia aurea (L.) Koch Golden Meadow-parsnip. Strongfield.

—**cordata** (Walt.) Koch Heart-leaved Meadow-parsnip. Common in the meadows of the park areas.

CORNACEAE. Dogwood Family.

Chamaepericlimenum canadense (L.) Asch. and Graebn.—*Cornus canadensis* L. Bunchberry. Common in poplar woods.

Svida instolonea A. Nels. River-bank Dogwood. Common on wooded hillsides.

—**stolonifera** (Michx.) Rydb.—*Cornus stolonifera* Michx. Red-osier Dogwood. Cypress Hills, Swift Current. Fosberg regards these as two forms of *Cornus sericea* L. (Bul Torr. Bot. Club 69:8: 1942.)

PYROLACEAE. Wintergreen Family.

Braxilia minor (L.) House—*Pyrola minor* L. Lesser Wintergreen. Range.

Chimaphila occidentalis Rydb. Pipsissewa. Nova Scotia to Ontario, westward through the forest country to the coast of British Columbia (Macoun).

Moneses uniflora (L.) A. Gray One-flowered Wintergreen. Fairly common in the wooded country to the north.

Orthilia secunda (L.) House—*Pyrola secunda* L. Secund Wintergreen. Fairly common and widespread in bluffs and woods. Athabaska Lake (R. S. Campbell).

Pyrola asarifolia Michx. Liver-leaf Wintergreen. Common in poplar woods and bluffs.

—**chlorantha** Sw. Greenish-flowered Wintergreen. Beaver Creek, Cypress Hills, Emma Lake, McKague, Prince Albert, Torch River, Waskesiu Lake.

—**elliptica** Nutt. White-flowered Wintergreen. Fairly common in dense bluffs and woods.

—**uliginosa** Torr. Bog Wintergreen. Common in poplar bluffs and woods. Very similar to *P. asarifolia* except for the shape of the leaves.

MONOTROPACEAE. Indian-pipe Family.

Hypopitys latisquama Rydb. Pine-sap. Cypress Hills.

Monotropa uniflora L. Indian Pipe. Big River; Emma Lake (E. W. Brooman); Waskesiu Lake.

Pterospora Andromedea Nutt. Pine Drops. Cypress Hills (Miss A. W. Anderson).

ERICACEAE. Heath Family.

Andromeda polifolia L. Bog Rosemary. Athabaska Lake, Crest, McKague, Meadow Lake; Nipawin (Eileen Clift); Prince Albert, Prince Albert Nat. Park.

Arctostaphylos Uva-ursi (L.) Spreng.—*Uva-ursi Uva-ursi* (L.) Britt. Bearberry. Common on sandy banks and hills. Athabaska Lake (Dr. D. S. Rawson).

Arctous erythrocarpa Small. Red Alpine Bearberry. Range.

Chamaedaphne calyculata (L.) Moench Leather Leaf. Athabaska Lake, Bannock, Crooked River, Waskesiu Lake.

Kalmia polifolia Wang. Pale Laurel. Athabaska Lake, Crest, Crooked River, Orley, Waskesiu Lake, White Fox.

Ledum decumbens (Ait.) Lodd. Narrow-leaved Labrador Tea. Reeve's Lake.

—**groenlandicum** Oeder Labrador Tea. Common in the bogs and muskegs to the north.

VACCINIACEAE. Huckleberry Family.

Chiogenes hispidula (L.) T. and G. Creeping Snowberry. Crooked River, McKague.

Cyanococcus canadensis (Richards.) Rydb.—*Vaccinium canadense* Richards. Canada Blueberry. Common in open woods on sandy soil in the north.

—**pennsylvanicus** (Lam.) Rydb.—*V. pennsylvanicum* Lam. Dwarf Blueberry. Newfoundland to the Rocky Mountains (Macoun).

Gaylussacia baccata (Wang.) K. Koch Huckleberry. (Sask.)

Oxycoccus palustris Pers.—*O. Oxycoccus* (L.) MacM. Swamp Cranberry. Crooked River, McKague, Prince Albert.

—**microcarpus** Turcz.—*Vaccinium microcarpum* (Turcz.) Hook. Small Cranberry. Range.

—**macrocarpus** (Ait.) Pers.—*V. macrocarpon* Ait. Large Cranberry. Sask.

Vaccinium caespitosum Michx. Dwarf Bilberry. Cypress Hills, Endeavour; Kleczkowski (Mrs. W. A. Bellamy); McKague, Medstead.

—**uliginosum** L. Bog Bilberry. Athabaska Lake.

Vitis-idaea punctata Moench—*Vitis-idaea Vitis-idaea* (L.) Britt.—*Vaccinium Vitis-idaea* L. Dry-ground Cranberry. Common in the north on sandy soil and in muskegs.

PRIMULACEAE. Primrose Family.

Anagallis arvensis L. Scarlet Pimpernel. Range.

Androsace diffusa Small Diffuse Androsace. Range.

—**occidentalis** Pursh Western Androsace. Radville.

—**puberulenta** Rydb. Puberulent Androsace. Common on dry ground. Sometimes persists in cultivated soil. Athabaska Lake (Dr. D. S. Rawson).

—**septentrionalis** L. Smooth Androsace. Gravel ridges in the Cypress Hills (Macoun).

Centunculus minimus L. Chaffweed. Reed Lake west of Johnston Lake (Macoun).

Dodecatheon cylindrocarpum Rydb. Cylindric-fruited Shooting-star. Cypress Hills, Robsart.

—**pauciflorum** (Durand) Greene Few-flowered Shooting-star. Common in wet places.

—**salinum** A. Nels. Shooting-star. Common in wet saline soil. Very similar to the last species.

Glaux maritima L. Sea Milkwort. Common in wet, saline meadows.

Lysimachia terrestris (L.) B.S.P. Loosestrife. (Sask.)

Naumburgia thyrsiflora (L.) Duby —*Lysimachia thyrsiflora* L. Tufted Loosestrife. Beaver Creek, Cypress Hills, Emma Lake; Kinistino (John Macoun); Pike Lake, Prince Albert, Waskesiu Lake.

Primula incana M. E. Jones. Mealy Primrose. Apparently wide-spread, occurring in saline meadows.

—**stricta** Hornem. Narrow-flowered Primrose. (Sask.)

—**MacCalliana** Wieg. MacCalla's Primrose. Range.

—**mistassinica** Michx. Dwarf Canadian Primrose. Prince Albert (G. F. Ledingham).

Steironema ciliatum (L.) Raf. Fringed Loosestrife. Common in bluffs and woods.

—**hybridum** (Michx.) Raf.—*S. lanceolatum* (Walt.) A. Gray var. *hybridum* (Michx.) A. Gray Lance-leaved Loosestrife. Humboldt, Saskatoon, Watrous. Found in wet meadows.

Trientalis americana Pursh Star Flower. Big River, Emma Lake, McKague, Prince Albert, Snowden, Torch River, Waskesiu Lake.

OLEACEAE. Olive Family.

Fraxinus campestris Britt. Green Ash. Fairly widespread in the southern part of the province. Found along rivers and creeks. Very similar to *F. pennsylvanica* Marsh.

—**lanceolata** Borkh.—*F. pennsylvanica* Marsh. var. *lanceolata* (Borkh.) Sarg. Lance-leaved Ash. (Sask.)

GENTIANACEAE. Gentian Family.

Amarella acuta (Michx.) Raf.—*Gentiana acuta* Michx. Northern Gentian. Beaver Creek, Madge Lake, Spiritwood, Waskesiu Lake.

—**plebeia** (Cham.) Greene—*G. plebei* Cham. Few-flowered Gentian. Invermay, Saskatoon.
—**propinqua** (Richards.) Greene Four-parted Gentian. Range.
—**scopulorum** Greene Slender Gentian. Cypress Hills.
—**strictiflora** (Rydb.) Greene Many-flowered Gentian. Common in moist natural meadows.
Anthopogon Macounii (Holm) Rydb. Macoun's Fringed Gentian. Range.
—**tonsus** (Lunell) Rydb. Bog Gentian. Fairly common in bogs.
—**ventricosus** (Griseb.) Rydb.—*Gentiana ventricosa* Griseb. Swollen Gentian. (Sask.)
Dasystephana affinis (Griseb.) Rydb.—*Gentiana affinis* Griseb. Oblong-leaved Gentian. Rather common in wet saline meadows.
—**Andrewsii** (Griseb.) Small—*G. Andrewsii* Griseb. Closed Blue Gentian. Zeneta (Miss Irene James).
—**interrupta** (Greene) Rydb. Interrupted Gentian. Bracken, St. Gregor.
—**puberula** (Michx.) Small Downy Gentian. (Sask.)
Halenia deflexa (Smith) Griseb. Spurred Gentian. Crooked River, Emma Lake, McKague, Meeting Lake, Speddington, Turtle Lake.
Pleurogyne rotata (L.) Griseb.—*Lomatogonium rotatum* (L.) Fries Marsh Felwort. Sutherland, Vonda Lake.

MENYANTHACEAE. Buckbean Family.

Menyanthes trifoliata L. Buckbean. Macdowall, McKague, Pike Lake, Prince Albert, Waskesiu Lake.

APOCYNACEAE. Dogbane Family.

Apocynum androsaemifolium L. Spreading Dogbane. Prince Albert.
—**scopulorum** Greene Field Dogbane. Common in and near woods on sandy soil.
—**sibiricum** Jacq.—*A. cannabinum* (L.) var. *hypericifolium* (Ait.) Gray Clasping-leaved Dogbane. Hudson Bay Jnctn.; Lisieux (J. T. Letourneau); Riverhurst (J. C. Daley); Saskatoon, Swift Current, Trossachs.

ASCLEPIADACEAE. Milkweed Family.

Acerates viridiflora (Raf.) Eat. Green Milkweed. Beaver Creek (W. J. White); Carlyle Lake, Mortlach, Pike Lake, Saskatoon.
—**viridiflora** var. *linearis* A. Gray Linear-leaved Green Milkweed. Saskatoon, Wadena.
Asclepias ovalifolia Decne. Dwarf Milkweed. Widespread but not abundant.
—**speciosa** Torr. Showy Milkweed. Widespread in the southern part of the province but not abundant.
—**syriaca** L. Silky Milkweed. (Sask.)

CONVOLVULACEAE. Morning-glory Family.

Convolvulus americanus (Sims) Greene—*C. sepium* L. var. *americanus* Sims American Bindweed. Carlyle (John Slykhuis); Hudson Bay Jnctn.; Leask (J. P. Coates); Nipawin, Runciman, Swift Current.
—**arvensis** L. Small Bindweed. Widespread but not common. Troublesome as a weed.
—**interior** House—*C. repens* Am. authors, not L. Inland Bindweed. Briercrest, Hawker, Plenty, Saskatoon.
—**Macounii** Greene Macoun's Bindweed. (Sask.)
—**sepium** L. Large-flowered Bindweed. Regina Beach, Saskatoon; Snowden (E. E. Brockelbank). The last collection appears to be a small-flowered variety of *C. sepium*.

CUSCUTACEAE. Dodder Family.

Cuscuta Gronovii Willd. Common Dodder. Nipawin, Runciman, Saskatoon; Wawota (Mrs. S. Rogers). Collected on several hosts.

—**planiflora** Tenore—*C. Epilinum* Weihe Flat-flowered Dodder. Saskatoon.

POLEMONIACEAE. Phlox Family.

Collomia linearis Nutt.—*Gilia linearis* (Nutt.) Gray Collomia. Common in wet meadows.

Gilia aggregata (Pursh) Spreng. Sky-rocket. On arid soil north of the Cypress Hills and at Red Deer Lake west of the Elbow of the South Saskatchewan River (Macoun).

—**congesta** Hook. Clustered Gilia. (Sask.)

Linanthus Harknessii (Curran) Greene Linanthus. Nashlyn.

Navarretia minima Nutt.—*Gilia minima* A. Gray Small Navarretia. Cypress Hills, Hatton, Maple Creek, Moose Jaw, Ravenscrag, Swift Current, Val Marie.

Phlox alyssifolia Greene Blue Phlox. (Sask.)

—**Hoodii** Richards. Moss Phlox. Common on dry prairie and hills. Occasionally plants with purplish flowers are seen.

Polemonium occidentale Greene Western Phlox. (Sask.)

HYDROPHYLLACEAE. Waterleaf Family.

Ellisia Nyctelea L. — *Nyctelea Nyctelea* (L.) Britt. Nyctelea. Cypress Hills, Langham, Oxbow, Qu'Appelle, Saskatoon; Wordsworth (E. T. Reeder).

Phacelia Franklinii (R. Br.) A. Gray Franklin's Phacelia. Athabaska Lake and Amisk Lake N. of Flin Flon (Dr. D. S. Rawson); Hudson Bay Jnctn., Nipawin, Prince Albert, Waskesiu Lake.

—**glandulifera** Piper Glandular Phacelia. Val Marie. The usual range of this species is in Washington, Oregon, and Idaho, according to Rydberg.

HELIOTROPIACEAE. Heliotrope Family.

Heliotropium spathulatum Rydb. Spatulate-leaved Heliotrope. Fairly common around saline lakes in south-western Sask.

BORAGINACEAE. Borage Family.

Allocarya californica (F. and M.) Greene California Allocarya. Maple Creek, Nashlyn, Radville, Saskatoon, Swift Current, Trossachs, Unity.

Amsinckia idahoensis M. E. Jones Fiddle Neck. Estevan (R. D. Ramsay).

Borago officinalis L. Borage. Delisle. Probably introduced with seed of cultivated plants.

Cryptantha crassisepala (T. and G.) Greene Thick-sepaled Cryptanthe. Maple Creek.

—**Fendleri** (A. Gray) Greene Fendler's Cryptanthe. Leinan; Major (J. R. Bunn); Swift Current, Webb.

—**Kelseyana** Greene Kelsey's Cryptanthe. (Sask.)

—**leiocarpa** (F. and M.) Greene Smooth-fruited Cryptanthe. (Sask.)

Cynoglossum officinale L. Hound's Tongue. Alameda, Wolseley. Introduced weed.

Echium vulgare L. Blue-weed. Regina.

Lappula americana (A. Gray) Rydb.—*L. deflexa* (Wahl.) Garcke Nodding Blue-bur. Bienfait, Pike Lake, Saskatoon.

—**echinata** Gilib.—*L. Lappula* (L.) Karst. Blue-bur. A common weed in grain fields and waste places.

—**floribunda** (Lehm.) Greene Many-flowered Blue-bur. Langham, Maple Creek, Saskatoon, Swift Current. Found around bluffs.

—**occidentalis** (S. Wats.) Greene Western Blue-bur. Dundurn, Elbow, Humboldt; Pilot Butte (Wm. Shevkenek); Saskatoon, Swift Current, Tompkins.

Lithospermum canescens (Michx.) Lehm. Hoary Puccoon. Common around bluffs on moist prairie in the park areas.

—**linearifolium** Goldie—*L. angustifolium* Michx. Linear-leaved Puccoon. Fairly common on dry sandy prairie.

—**mandanense** Spreng. Mandan Puccoon. Saskatoon. Very similar to *L. linearifolium.*

Lycopsis arvensis L. Small Bugloss. Indian Head, Kildeer.

Mertensia lanceolata (Pursh) DC. Lance-leaved Mertensia. Hitchcock, Mankota.

—**linearis** Greene Linear-leaved Mertensia. Chaplin (Annie Hobberstad); Dundurn.

—**paniculata** (Ait.) G. Don. Tall Mertensia. Common in wooded areas.

—**pilosa** (Cham.) DC. Hairy Mertensia. Common in wooded areas. Very similar to *M. paniculata.*

Myosotis arvensis (L.) Hill Forget-me-not. Bjorkdale.

Onosmodium occidentale Mack. Western False Gromwell. Range.

Oreocarya aperta Eastw. Loose-flowered Oreocarya. Bengough, Estevan, Swift Current.

—**glomerata** (Pursh) Greene Clustered Oreocarya. Fairly common on dry hills.

—**Macounii** Eastw. Macoun's Oreocarya. (Sask.)

VERBENACEAE. Vervain Family.

Verbena bracteosa Michx. Bracted Vervain. Arcola, Belbeck, Carlyle, Climax, Forget; Moose Jaw (G. F. Ledingham); Twelvemile Lake.

LAMIACEAE. Mint Family.

Agastache anethiodora (Nutt.) Britt. Giant Hyssop. Common in moist wooded areas.

Dracocephalum Nuttallii Britt.—*Physostegia parviflora* Nutt. Dragon-head. Widespread but not abundant. Found on moist soil, particularly along streams.

Galeopsis Tetrahit L. Hemp-nettle. Conquest, Orley, Stenen, St. Gregor, Tisdale, Wadena, Waskesiu Lake. Naturalized from Europe.

Glecoma hederacea L.—*Nepeta hederacea* (L.) Trevisan Ground Ivy. McKague.

Hedeoma hispida Pursh Rough Pennyroyal. Bengough, Canfield, Consul, Estevan, Wood River.

Lamium album L. White Dead Nettle. Speers (Ruth E. Bodie). Found growing in a garden.

L. amplexicaule L. Henbit. Marshall, Kamsack, Tisdale.

Lycopus americanus Muhl. Cut-leaved Water Horehound. Indian Head, Pike Lake, Saskatoon, Wadena.

—**asper** Greene Western Water Horehound. Common in wet meadows.

—**uniflorus** Michx. Northern Water Horehound. Big River.

Mentha glabrior (Hook). Rydb.—*M. arvensis* L. var. *glabrata* (Benth.) Fern. Glabrate Mint. Common in wet meadows.

—**canadensis** L.—*M. arvensis* L. var. *canadensis* (L.) Briq. Canadian Mint. Range.

—**Penardi** (Briq.) Rydb. Thick-leaved Mint. Common in wet meadows.

—**rubella** Rydb. Purple Mint. Leinan.

Moldavica parviflora (Nutt.) Britt.—*Dracocephalum parviflorum* Nutt. American Dragonhead. Cypress Hills, Macdowall, Saskatoon.

—**thymiflora** (L.) Rydb.—*D. thymiflorum* L. Slender Dragonhead. Lebret. Naturalized from Europe.

Monarda menthaefolia Benth. Wild Bergamot. Common on open prairie in park areas.

Prunella vulgaris L. Self-heal. Range.

Scutellaria epilobifolia A. Hamilt. *S. galericulata* L. Marsh Skullcap. Fairly common in wet places.

—**lateriflora** L. Blue Skullcap. Trossachs.

Stachys borealis Rydb. Northern Hedge-nettle. Range. Similar to *S. palustris* L.

—**scopulorum** Greene—*S. palustris* Coult. not L. Marsh Hedge-nettle. Common in wet meadows.

Teucrium occidentale A. Gray Hairy Germander. Yorkton (Mrs. I. M. Priestly).

SOLANACEAE. Potato Family.

Androcera rostrata (Dunal) Rydb.—*Solanum rostratum* Dunal Sand Bur. A few specimens have been collected but the species does not seem to be established in Saskatchewan.

Datura Stramonium L. Thorn Apple. Melfort; Senlac (R. H. Dunlop); Shellbrook (Carl Dahlgren).

Hyoscyamus niger L. Black Henbane. Cudworth, Macklin, Saltcoats, Saskatoon, Southey.

Leucophysalis grandiflora (Hook.) Rydb.—*Physalis grandiflora* Hook. Large White Ground-cherry. Codette; Ile a la Crosse (Wm. Turnstead); Love, Meadow Lake, Nipawin, Prince Albert.

Physalis heterophylla Nees Clammy Ground-cherry. (Sask.)

Solanum nigrum L. Black Nightshade. Coronach; Macdowall (Agnes M. Paul); Saskatoon (E. M. Child). These specimens resemble Rydberg's *S. interius* in some respects.

—**triflorum** Nutt. Wild Tomato. Fairly common as a weed on cultivated land.

SCROPHULARIACEAE. Figwort Family.

Agalinis aspera (Dougl.) Britt.—*Gerardia aspera* Dougl. Purple Agalinis. Range.

—**paupercula** (A. Gray) Britt.—*G. paupercula* Britt. Small-flowered Agalinis. (Sask.)

Besseya wyomingensis (A. Nels.) Rydb.—*Synthyris rubra* (Hook.) Benth. Kitten-tails. Range.

Castilleja coccinea (L.) Spreng. Scarlet Painted-cup. Buchanan.

—**mineata** Benth. Indian Paint-brush. Cypress Hills.

—**rhexifolia** Rydb. Indian Paint-brush. Common in northeastern Saskatchewan.

—**sessiliflora** Pursh Downy Painted-cup. Cypress Hills, Fort Qu'Appelle, Indian Head, Katepwa.

Chaenorrhinum minus (L.) Lang.—*Linaria minor* (L.) Desf. Small Snapdragon. Gillespie (P. A. Lindsey); Prudhomme.

Collinsia parviflorum Dougl. Blue-lips. Carlyle (Wm. Shevkenek); Cypress Hills.

Elephantella groenlandica (Retz.) Rydb. Elephant Flower. Cameo (Selma Tunnen); Edam (Max Wolfe); Turtleford, Prince Albert Nat. Park.

Euphrasia disjuncta Fern. and Wieg. Purple Eyebright. Range.

—**hudsoniana** Fern. and Wieg. Hudson Bay Eyebright. Range.

Gratiola neglecta Torr.—*G. virginiana* L. Clammy Hedge-hyssop. Fairly common in muddy spots.

Limosella aquatica L. Mudwort. Alameda, Elbow, Fife Lake, Leacross, Saskatoon, Val Marie.

—**tenuifolia** Wolf. Linear-leaved Mudwort. Range.

Linaria texana Scheele. Blue Toad-flax. Alsask. Probably introduced in garden seed.

—**vulgaris** Mill.—*L. Linaria* (L.) Karst. Butter-and-Eggs. Found occasionally in waste places.

Melampyrum lineare Lam. Cow Wheat. Nipawin, Prince Albert.

Mimulus guttatus DC.—*M. Langsdorfii* Donn. Yellow Monkey-flower. Cypress Hills.

Orthocarpus luteus Nutt. Owl's Clover. Common on prairie.

Pedicularis euphrasioides Stephan Eyebright Pedicularis. Range.

—**lanceolata** Michx. Swamp Pedicularis. Sask.

—**lapponica** L. Lapland Pedicularis. Range.

—**parviflora** Smith—*P. palustris* L. var. *Wlassoviana* Bunge Purple Pedicularis. McKague.

Pentstemon albidus Nutt. White Beard-tongue. Widespread in the southern part of the province.

—**confertus** Dougl. Yellow Beard-tongue. Swift Current.

—**gracilis** Nutt. Lilac-flowered Beard-tongue. Fairly common on moist prairie.

—**nitidus** Dougl. Blue Beard-tongue. Common on dry hills.

—**procerus** Dougl. Slender Beard-tongue. Common on moist prairie.

—**puberulentus** Rydb. Puberulent Beard-tongue. Estevan.

Rhinanthus Kyrollae Chab. Yellow Rattle. Carnduff.

Veronica americana Schw. American Speedwell. Bjorkdale (John Laycock); Cypress Hills, Pike Lake, Pre Ste. Marie, Tisdale, Waskesiu Lake.

–**catenata** Pennell—*V. Anagallis-aquatica* L. Water Speedwell. Hudson Bay Jnctn.

—**longifolia** L. Raymore. This plant appeared to have escaped from cultivation and had established itself in the native sod.

—**scutellata** L. Marsh Speedwell. Fairly common in moist meadows.

—**serpyllifolia** L. Thyme-leaved Speedwell. Cypress Hills.

—**xalapensis** H.B.K. Hairy Speedwell. Cypress Hills, Fife Lake, Maple Creek, Rosthern, Saskatoon, Wallwort.

LENTIBULARIACEAE. Bladderwort Family.

Pinguicula vulgaris L. Butterwort. Prince Albert. Collected in a cold bog.

Utricularia intermedia Hayne Flat-leaved Bladderwort. Dahlton, Pike Lake, Prince Albert.

—**macrorrhiza** Le Conte—*U. vulgaris* L. var. *americana* A. Gray Greater Bladderwort. Fairly common in lakes and sloughs.

—**minor** L. Lesser Bladderwort. Dahlton.

OROBANCHACEAE. Broom-rape Family.

Anoplanthus fasciculatus (Nutt.) Walp.—*Thalesia fasciculata* (Nutt.) Britt.—*Orobanche fasciculata* Nutt. Cancer-root. Bracken, Kelliher, Meota, Saskatoon, Swift Current. Parasitic on Artemisia and other composites.

Myzorrhiza ludoviciana (Nutt.) Rydb.—*Orobanche ludoviciana* Nutt. Broom-rape. Beaver Creek, Pike Lake; Regina (M. W. Ross); Sutherland, Wakaw. Parasitic on Artemisia in sandy soil.

PLANTAGINACEAE. Plantain Family.

Plantago aristata Michx. Long-bracted Plantain. Madge Lake, Regina.

—**asiatica** L.—*P. major* var. *asiatica* (L.) Decne. Asian Plantain. Beaver Flats, Hudson Bay Jnctn., Nipawin, Vonda Lake.

—**elongata** Pursh Linear-leaved Plantain. Moose Jaw, Val Marie.
—**eriopoda** Torr. Saline Plantain. Fairly common in saline soil.
—**major** L. Common Plantain. Most of our collections appear to belong to the variety, *asiatica.*
—**Purshii** R. and S. Pursh's Plantain. Clearfield, Cypress Hills, Elbow, Saskatchewan Landing, Skull Creek.
—**pusilla** Nutt. Slender Plantain. Kindersley.
—**Rugelii** Decne. Rugel's Plantain. Maple Creek, Saskatchewan Landing, Weyburn.

RUBIACEAE. Madder Family.

Galium Aparine L. Cleavers. Kelvington. Found in grain grown from seed imported from England.
—**boreale** L. Northern Bedstraw. Very common on moist prairie and in open woods.
—**labradoricum** Wieg. Labrador Bedstraw. Archerwill, Ituna, McKague, Pike Lake, Waskesiu Lake.
—**trifidum** L. Small Bedstraw. Cypress Hills, Invermay, Pike Lake, Yorkton, Wallwort.
—**triflorum** Michx. Sweet-scented Bedstraw. Rather common in bluffs and woods.
—**Vaillantii** DC. –*G. Aparine* L. var. *Vaillantii* (DC.) Koch Vaillant's Cleavers. Beaver Creek, Maple Creek, Swift Current, Trossachs.
Houstonia longifolia Gaertn. Long-leaved Bluets. Ituna, Macdowall, McKague, Prince Albert, Wordsworth.

CAPRIFOLIACEAE. Honeysuckle Family.

Diervilla Lonicera Mill.—*D. Diervilla* (L.) MacM. Bush Honeysuckle. Bjorkdale.
Distegia involucrata (Richards.) Cockerell—*Lonicera involucrata* (Richards.) Banks Involucrate Honeysuckle. Fairly common in the northern wooded areas.
Linnaea americana Forbes—*L. borealis* var. *americana* (Forbes) Rehder Twin Flower. Widespread and fairly common in thick woods.
Lonicera glaucescens Rydb. Twining Honeysuckle. Fairly common in woods. Very satisfactory as a cultivated ornamental vine.
Sambucus canadensis L. Common Elder. Range.
—**pubens** Michx. –*S. racemosa* L. Red-berried Elder. Reported from about 60 miles north-east of Nipawin, by Mr. R. Dewhurst of Prince Albert.
Symphoricarpos albus (L.) Blake—*S. racemosus* Michx. Snow-berry. Range.
—**occidentalis** Hook. Western Snow-berry. Very common both in bluffs and out in the open prairie.
—**pauciflorus** (Robbins) Britt.—*S. racemosus* Michx. var. *pauciflorus* Robbins Few-flowered Snow-berry. Crooked River, Cypress Hills, Dana, Indian Head, Langham, Prince Albert, Saskatoon.
Viburnum eradiatum (Oakes) House—*V. pauciflorum* Pylaie Low-bush Cranberry. Fairly common in wooded areas.
—**Lentago** L. Nanny-berry. Leaves from a tree near Gainsborough sent in recently suggest that the tree may belong to this species although the shape is more like that of *V. alnifolium.*
—**trilobum** Marsh.—*V. Opulus* L. var. *americanum* (Mill.) Ait. High-bush Cranberry. Widespread in woods on wet soil.
Xylosteon canadense (Marsh.) Duham.—*Lonicera canadensis* Marsh. Canadian Fly-honeysuckle. (Sask.)
—**coeruleum** (L.) Dum.-Cours.—*L. coerulea* L.—*L. coerulea* L. var. *villosa* (Michx.) T. and G. Blue Fly-honeysuckle. Dahlton, Prince Albert, Sikip, Silver Park, Waskesiu Lake, Wierdale.

—**oblongifolium** Goldie—*L. oblongifolia* (Goldie) Hook. Swamp Fly-honeysuckle. Bodmin, Lac Vert; McElhanney (C. A. Wilson); Pleasantdale, Sikip, Wallwort, White Fox.

—**tataricum** (L.) Medic.—*L. tatarica* L. Tartarian Honeysuckle. Nipawin, Rosthern, Saskatoon, Swift Current. Escaped from cultivation. This shrub is very commonly used for ornamental purposes in this province.

SANTALACEAE. Sandalwood Family.

Comandra livida Richards.—*Geocaulon lividum* (Richards.) Fern. Northern Comandra. Athabaska Lake (R. S. Campbell); Emma Lake, Prince Albert, Turtle Lake, Waskesiu Lake.

—**pallida** A. DC. Pale Comandra. Common in the open and around bluffs.

—**Richardsoniana** Fern. Richardson's Comandra. (Sask.)

—**umbellata** (L.) Nutt. Umbellate Comandra. (Sask.)

LORANTHACEAE. Mistletoe Family.

Arceuthobium americanum Nutt.—*Razoumofskya americana* (Nutt.) Kuntze Pine Mistletoe. Crutwell, Prince Albert, Shellbrook, St. Walburg. Causes large witches brooms to form on Jack-pine.

CUCURBITACEAE. Gourd Family.

Micrampelis lobata (Michx.) Greene—*Echinocystis lobata* (Michx.) T. and G. Balsam Apple. Qoderre (A. C. Budd); Tisdale, Trossachs.

CAMPANULACEAE. Bellflower Family.

Campanula aparinoides Pursh Marsh Bellflower. Crooked River (G. F. Ledingham); McKague, Montreal Lake, Prince Albert Nat. Park, White Fox.

—**petiolata** A. DC.—*C. rotundifolia* L. Bluebell. Common on prairie and hills.

—**uliginosa** (T. and G.) Rydb. Blue Marsh Bellflower. (Sask.)

LOBELIACEAE. Lobelia Family.

Bolelia laeta Greene—*Downingia laeta* (Greene) Greene Crane Lake and Skull Creek (John Macoun). Reported by Porsild.

Lobelia cardinalis L. Cardinal Flower. (Sask.)

—**Dortmanna** L. Water Lobelia. Range.

—**hirtella** (A. Gray) Greene—*L. spicata* Lam. var. *hirtella* A. Gray Pale Spiked Lobelia. Widespread but not abundant.

—**inflata** L. Indian Tobacco. (Sask.)

—**spicata** Lam. Spiked Lobelia. Saskatoon.

—**strictiflora** (Rydb.) Lunell—*L. Kalmii* L. var. *strictiflora* Rydb. Kalm's Lobelia. Widespread and fairly common in bogs.

VALERIANACEAE. Valerian Family.

Valeriana septentrionalis Rydb. Northern Valerian. Bjorkdale (John Laycock); Emma Lake, McKague, Prince Albert, Prince Albert Nat. Park, Shellbrook, Silver Park, St. Brieux.

—**uliginosa** (T. and G.) Rydb. Marsh Valerian. The above-listed collections resemble this species in leaf characters.

AMBROSIACEAE. Ragweed Family.

Ambrosia coronopifolia T. and G.—*A. psilostachya* DC. Perennial Ragweed. Fairly common and widespread.

—**elatior** L.—*A. artemisiaefolia* A. Gray Common Ragweed. Carnduff, Hague, Maple Creek, Matador, Regina, Roche Percee, Swift Current.

—**trifida** L. Great Ragweed. Aberdeen, Dundurn, Humboldt, Roche Percee, Saskatoon.

Cyclachaena xanthifolia (Nutt.) Fresen—*Iva xanthifolia* Nutt. False Ragweed. Bankend, Elbow, Saskatoon, Swift Current, Weyburn, Whitewood.

Franseria acanthocarpa (Hook.) Cov.—*Gaertneria acanthocarpa* (Hook.) Britt. Franseria. Beaver Creek (Dr. W. J. White); Great Sand Hills, Piapot.

Iva axillaris Pursh Poverty Weed. A common and very troublesome weed in some districts.

Xanthium commune Britt. Cocklebur. Range.
—**echinatum** Murr. Beach Cocklebur. Meota, Moose Jaw, Saskatoon; Vanscoy (E. Rose).
—**glanduliferum** Greene Glandular Cocklebur. Maple Creek, Swift Current.
—**spinosum** L. Spiny Cocklebur. Steelman.

CARDUACEAE. Thistle Family.

Achillea borealis Bongard Northern Yarrow. Athabaska Lake (Dr. D. S. Rawson).
—**lanulosa** Nutt. Wooly Yarrow. Common on prairie.
—**Millefolium** L. Milfoil. Cadillac, Emma Lake, Prince Albert Nat. Park.
—**multiflora** Hook. Many-flowered Yarrow. Annaheim, Lestock, Margo, Naicam, Pike Lake, Prince Albert, Sutherland, Waskesiu Lake, White Fox.
Anaphalis subalpina (A. Gray) Rydb.—*A. margaritacea* (L.) Benth. and Hook. Pearly Everlasting. Cutknife.
Antennaria aizoides Greene Pussy-paws. (Sask.)
—**aprica** Greene. Low Pussy-paws. Indian Head, Saskatoon, Senlac, Sidewood, Swift Current.
—**arida** E. Nels. Dry-ground Pussy-paws. Swift Current.
—**campestris** Rydb. Prairie Pussy-paws. Bruno, Canora, Crooked River, McKague, St. Gregor.
—**Howellii** Greene Howell's Pussy-paws. Prince Albert, Prince Albert Nat. Park.
—**microphylla** Rydb. Small-leaved Pussy-paws. Common in saline meadows.
—**obovata** E. Nels. Tomentose Pussy-paws. Cypress Hills.
—**oxyphylla** Greene Sharp-leaved Pussy-paws. Cypress Hills.
—**pulcherrima** (Hook.) Greene Showy Pussy-paws. Quite common west of Battleford (Macoun).
—**rosea** (D. C. Eat.) Greene Rosy Pussy-paws. Cypress Hills; Saskatoon (E. M. Child); Waskesiu Lake.
Arctium minus Schk. Lesser Burdock. Big River (F. O. Mitchie); Francis (Blanch Hall); Maple Creek, Regina; Tisdale (Wm. Erben).
Arnica alpina (L.) Olin Arctic Arnica. Range.
—**attenuata** Greene Sharp-leaved Arnica. Athabaska Lake (Dr. D. S. Rawson).
—**Chamissonis** Less. Leafy Arnica. Widespread but not very abundant.
—**cordifolia** Hook. Heart-leaved Arnica. Cypress Hills; Waskesiu Lake (O. C. Furniss).
—**fulgens** Pursh Shining Arnica. Widespread but not very abundant.
Artemisia Abrotanum L. Southernwood. Golburn.
—**Absinthium** L. Absinth. Big River, Hudson Bay Jnctn.; Macdowall (Agnes M. Paul); Montreal Lake; Regina (T. N. Willing).
—**biennis** Willd. Biennial Wormwood. Common, especially as a weed in shallow potholes in cultivated fields.
—**Bourgeauana** Rydb. Bourgeau's Wormwood. (Sask.)
—**camporum** Rydb. Plains Wormwood. Common on dry prairie.

—**cana** Pursh Hoary Sage-bush. Chamberlain, Consul, Fort Qu'Appelle, Hodgeville, Maple Creek, Saskatoon, Swift Current.
—**caudata** Michx. Tall Wormwood. Langham, McKague, Prince Albert, Saskatoon.
—**diversifolia** Rydb. Various-leaved Sage. Yellowgrass.
—**dracunculoides** Pursh Linear-leaved Wormwood. Common on dry prairie.
—**elatior** (T. and G.) Rydb. Taller Wormwood. Range.
—**falcata** Rydb. Falcate-leaved Wormwood. (Sask.)
—**Forwoodii** S. Wats. Forwood's Wormwood. (Sask.)
—**frigida** Willd. Pasture Sage. Very common on dry prairie especially in old pastures.
—**glauca** Pall. Smooth Wormwood. Dana, Humboldt.
—**gnaphalodes** Nutt. Prairie Sage. Very common on prairie.
—**Herriottii** Rydb. Herriott's Sage. Bengough.
—**Hookeriana** Besser Hooker's Sage. (Sask.)
—**longifolia** Nutt. Long-leaved Sage. Bracken, Val Marie.
—**Michauxiana** Besser Michaux's Sage. (Sask.)
—**pabularis** (A. Nels.) Rydb. Slender Sage. Hudson Bay Jnctn., Meyronne, Morse, Robsart, Saskatoon, Swift Current, Trossachs.
Aster adscendens Lindl. Western Aster. Common around Cypress Hills (Macoun); Hodgeville.
—**adsurgens** Greene—*A. crassulus* Rydb.—*A. exiguus* Rydb. (Rhodora 35:323-327. 1933). Small-leaved Aster. Indian Head, Macdowall, Saskatoon, Swift Current.
—**coerulescens** DC.—*A salicifolius* Lam. Willow Aster. Common around wet meadows and lake shores, especially in the north.
—**ciliomarginatus** Rydb. Ciliolate-margined Aster. Cypress Hills.
—**comutatus** (T. and G.) A. Gray White Prairie Aster. Floral, Saskatoon.
—**conspicuus** Lindl. Showy Aster. Fairly common in wooded areas in the north. Also found in the Cypress Hills.
—**ericoides** L.—*A. stricticaulis* (T. and G.) Rydb. (Rhodora 35:323-327. 1933). White Heath Aster. Common on prairies.
—**ericoides** L. var. *prostratus* (Kuntze) Blake Prostrate White Heath Aster. Humboldt.
—**Franklinianus** Rydb. Franklin's Aster. Macdowall.
—**Geyeri** (A. Gray) Howell Geyer's Aster. Pike Lake, Prince Albert, Saskatoon.
—**junciformis** Rydb.—*A. junceus* Ait. Rush Aster. Fairly common on moist soil especially to the north.
—**laevis** L. Smooth Aster. Very common on moist prairie and around bluffs.
—**Lindleyanus** T. and G. Lindley's Aster. Cypress Hills, Emma Lake, Madge Lake, McKague, Pike Lake, Pre Ste. Marie, Saskatoon.
—**longifolius** Lam. Long-leaved Aster. Fairly common in wet meadows.
—**longulus** Sheldon (Shinners, Rhodora, 44:338-339. 1942.) Pink-flowered Aster. Pike Lake, Swift Current.
—**Mearnsii** Rydb. Mearn's Aster. Cypress Hills.
—**Novae-Angliae** L. New England Aster. Saskatoon.
—**Osterhoutii** Rydb.—*A. laetevirens* Greene Osterhout's Aster. Cypress Hills, McKague, Swift Current.
—**paniculatus** Lam. Tall White Aster. McKague.
—**pauciflorus** Nutt. Few-flowered Aster. Edam.
—**puniceus** L. Purple-stemmed Aster. Emma Lake, Kamsack, Madge Lake, McKague, Prince Albert, Prince Albert Nat. Park, Wallwort.
—**stricticaulis** (T. and G.) Rydb. Upright Aster. Saskatoon, Swift Current.
—**subgriseus** Rydb. Hirsute Aster. Cypress Hills, Floral, Nokomis, Saskatoon, Swift Current, Warman.

—**Tweedyi** Rydb. Tweedy's Aster. Swift Current.
—**Wilsonii** Rydb. Wilson's Aster. Range.
—spp. See Shinners, L.H., The Genus Aster in Wisconsin. Amer. Midl. Nat. 26:398-420. 1941.
Balsamorrhiza sagittata (Pursh) Nutt. Balsam Root. (Sask.)
Bidens frondosa L. Beggar-ticks. Range.
—**glaucescens** Greene Smooth Beggar-ticks. Cypress Hills, Emma Lake, McKague, Pike Lake, Prince Albert, Swift Current.
—**puberula** (Wieg.) Rydb. Downy Beggar-ticks. Regina; Wordsworth (E. T. Reeder).
—**vulgata** Greene Tall Beggar-ticks. Maple Creek.
Boltonia asteroides L'Her. Boltonia. Weyburn; Torquay (G. A. Wee).
Brachyactis angusta (Lindl.) Britt. Rayless Aster. Fairly common in wet meadows.
Carduus nutans L. Nodding Thistle. Craik (C. C. Moe); Davidson (F. C. Podratz); Renown (R. O. Bibby).
Centaurea Picris Pall. Russian Knapweed. Gull Lake; Indian Head (T. Clark); Landis, Maxim, Tompkins.
—**solstitialis** L. Yellow Star Thistle. Scott (R. H. Anderson).
Chamomilla Hookerii (Schultz-Bip.) Rydb.—*Matricaria grandiflora* Britt. Hooker's Camomile. Range.
—**inodora** (L.) Gilib.—*M. inodora* L. Scentless Camomile. Balgonie, Crooked River, Emma Lake.
—**suaveolens** (Pursh) Rydb.—*M. matricarioides* (Less.) Porter Pineapple Weed. Widespread but not very common.
Chrysopsis Butleri Rydb. Butler's Golden Aster. Sceptre.
—**hirsutissima** Greene Hairy Golden Aster. Common on dry prairie.
—**hispida** (Hook.) DC. Hispid Golden Aster. Fairly common on dry prairie.
—**villosa** (Pursh) Nutt. Villose Golden Aster. Alameda (T. N. Willing); Saskatoon, Swift Current.
Chrysothamnus frigidus Greene Rabbit Brush. Cadillac, Cypress Hills, Val Marie.
Cirsium arvense (L.) Scop. Canada Thistle. A common and troublesome weed in some districts.
—**arvense** (L.) Scop. var. *integrifolium* Wimm. and Grab. Entire-leaved Canada Thistle. Langham, Lestock, Saskatoon.
—**brevifolium** Nutt. Short-leaved Thistle. (Sask.)
—**Drummondii** T. and G. Short-stemmed Thistle. McKague, Prince Albert, Prince Albert Nat. Park, Rosthern, Smeaton, Wallwort.
—**Engelmannii** Rydb. Engelmann's Thistle. Lac Pelletier.
—**Flodmanii** (Rydb.) Arth. Flodman's Thistle. Common on prairie.
—**foliosum** (Hook.) DC. Leafy Thistle. (Sask.)
—**lanceolatum** (L.) Hill Spear Thistle. Dana, Tompkins.
—**muticum** Michx. Swamp Thistle. Algrove, Kamsack, McKague, Sturgis, Waskesiu Lake.
—**oblanceolatum** (Rydb.) K. Schum. Woolly Thistle. Nokomis, Paynton.
—**undulatum** (Nutt.) Spreng. Wavy-leaved Thistle. Abundant on the western prairies (Macoun). Bengough, Kisby, McKague, Saskatchewan Landing, Swift Current.
Coreopsis tinctoria Nutt. Golden Coreopsis. Fairly common in the open prairie areas.
Doellingeria pubens (A. Gray) Rydb.—*D. umbellata* (Mill.) Nees—*Aster umbellatus* Mill. var. *pubens* Gray Flat-topped White Aster. (Sask.)
Echinacea angustifolia DC.—*Brauneria angustifolia* (DC.) Heller Purple Cone-flower. Carnduff, Estevan.
Echinops sphaerocephalus L. Globe Thistle. Regina, Saskatoon.

Erigeron anodontus Lunell Erect Fleabane. Saskatoon.
—**asper** Nutt. Rough Fleabane. Common on dry prairie and hills. Some botanists regard *E. asper* and *E. glabellus* as synonymous.
—**caespitosus** Nutt. Tufted Fleabane. Fairly common on dry prairie and hills.
—**compositus** Pursh Compound Fleabane. Biggar (Magdelene Christensen); Cypress Hills (Macoun); Moose Mntn. Creek (J. M. Macoun); Southey (Wm. Shevkenek).
—**condensatus** (D. C. Eat.) Greene Small Fleabane. Saskatoon, Touchwood Hills.
—**droebachensis** Muell.—*E. acris* L. var. *asteroides* (Andrz.) DC. Tall White Fleabane. Montreal Lake.
—**Drummondii** Greene Drummond's Fleabane. Saskatoon.
—**Engelmannii** A. Nels. Engelmann's Fleabane. Nashlyn.
—**glabellus** Nutt. Smooth Fleabane. Crooked River, Cypress Hills, Humboldt, Macdowall, McKague, Prince Albert, Prudhomme, Saskatoon. (See *E. asper*).
—**lonchophyllus** Hook. Hirsute Fleabane. Widespread and fairly common in wet soil.
—**minor** (Hook.) Rydb. Low Fleabane. Kerrobert.
—**oblanceolatus** Rydb. Oblanceolate-leaved Fleabane. Saskatoon.
—**oligodontus** Lunell Slender Fleabane. Dafoe, Indian Head, McKague, Prince Albert, Saskatoon.
—**peuciphyllus** A. Gray Thread-leaved Fleabane. Cypress Hills (Macoun).
—**philadelphicus** L. Philadelphia Fleabane. Common in wet soil in wooded areas. Athabaska Lake (Dr. D. S. Rawson).
—**pumilus** Nutt. Plains Fleabane. Fairly common on dry plains and hills.
—**purpureus** Ait. Purple Fleabane. Annaheim, Kenosee Lake, Resource.
—**radicatus** Hook. Dwarf Fleabane. Moose Mountain Creek and the east end of the Cypress Hills (Macoun).
—**ramosus** (Walt.) B.S.P. Daisy Fleabane. Hudson Bay Jnctn., Pre Ste. Marie, Saskatoon.
—**salsuginosus** (Richards.) A. Gray Marsh Fleabane. (Sask.)
—**speciosus** DC. Showy Fleabane. Saskatoon.
—**subcanescens** Rydb. Ashy Fleabane. (Sask.)
—**trifidus** Hook. Three-leaved Fleabane. Elrose.
Eupatorium Bruneri A. Gray Bruner's Trumpet-weed. Hudson Bay Jnctn.; Madge Lake (Miss A. W. Anderson); Nipawin.
—**maculatum** L. Spotted Joe-Pye Weed. (Sask.)
—**urticaefolium** Reich. White Snake-root. (Sask.)
Euthamia camporum Greene—*E. graminifolia* (L.) Nutt.—*Solidago graminifolia* (L.) Salisb. var. *camporum* (Greene) Fern. Flat-topped Goldenrod. Gainsborough, Langham, Montreal Lake, Nipawin, Pike Lake, Saskatoon.
Gaillardia aristata Pursh Blanket Flower. Widespread and common on the prairie. Sometimes cultivated. Quite suitable as a floral emblem for Saskatchewan.
Gnaphalium Macounii Greene Macoun's Cudweed. Range.
—**palustre** Nutt. Western Marsh Cudweed. Floral (Miss A. W. Anderson); Rosthern (Geo. Stevenson); Saskatoon, Val Marie, Weyburn, Yeomans.
Grindelia perennis A. Nels. Gum-weed. Fairly common on dry prairie.
—**squarrosa** (Pursh) Dunal Squarrose Gum-weed. There appears to be very little to separate this species from *G. perennis*. Its range is mainly south of Saskatchewan.
Gutierrezia diversifolia Greene Broom-weed. Common on dry prairie.
—**Sarothrae** (Pursh) Britt. and Rusby Broom-weed. Range.

Helenium macranthum Rydb.—*H. autumnale* L. var. *grandiflorum* A. Gray Sneeze-weed. Probably common but difficult to distinguish from the following species.

—**montanum** Nutt. Sneezeweed. Bracken, Pike Lake, Saskatoon, Swift Current, Unity.

Helianthus annus L. Common Sunflower. Occasional in waste places. Excaped from cultivation.

—**aridus** Rydb. Dry-ground Sunflower. Aberdeen, Regina, Stranraer, Watrous.

—**divaricatus** L. Woodland Sunflower. McKague, Tisdale.

—**fascicularis** Greene Clustered Sunflower. Hodgeville, Indian Head, Swift Current; Yorkton (Mrs. I. M. Priestly).

—**giganteus** L. Giant Wild Sunflower. Widespread and fairly common in saline soil.

—**grosseserratus** Martens Saw-toothed Sunflower. (Sask.)

—**lenticularis** Dougl. Showy Sunflower. Common on clay soils.

—**Maximiliani** Schrad. Maximilian's Sunflower. Dundurn, Humboldt, Quill Lake, St. Front, Tisdale.

—**petiolaris** Nutt. Prairie Sunflower. Fairly common on dry prairie, especially on sandy soil.

—**subrhomboideus** Rydb. Rhombic-leaved Sunflower. Common on saline prairie.

—**subtuberosus** Bourgeau Tuberous-rooted Sunflower. Amsterdam, Pike Lake, Saskatoon, Sutherland, Warman.

—**tuberosus** L. Artichoke. (Sask.)

Hymenopappus filifolius Hook. Hymenopappus. Big Muddy Valley (Wm. Shevkenek); Ormiston.

Hymenoxys Macounii (Cockerell) Rydb. Macoun's Hymenoxys. Luseland, Moose Jaw, Saskatoon.

—**Richardsonii** (Hook.) Cockerell Richardson's Hymenoxys. Antelope, Cadillac, Consul, Kerrobert, Saskatoon, Swift Current. Very similar to *H. Macounii.*

Lepachys columnifera (Nutt.) Rydb.—*Ratibida columnaris* (Sims) D. Don. Prairie Cone-flower. Fairly common on dry open prairie.

—**columnifera** (Nutt.) Rydb. var. *pulcherrima* T. and G. Brown-rayed Cone-flower. Bengough, Regina, Saskatoon.

Leptilon canadense (L.) Britt.—*Erigeron canadensis* L. Horse-weed. Very common on poorly cultivated sandy soil.

Leucanthemum vulgare Lam.—*Chrysanthemum Leucanthemum* L. Ox-eye Daisy. Crooked River, Montreal Lake, Regina, Waskesiu Lake.

Liatris ligulistylis (A. Nels.) Rydb. Meadow Blazing Star. Common on moist prairie.

—**punctata** Hook.—*Lacinaria punctata* (Hook.) Kuntze Dotted-leaved Blazing Star. Common on dry prairie and hills.

Machaeranthera canescens (Pursh) A. Gray Canescent Aster. Beverley, Claydon, Kelstern; Swift Current (H. Sweet); Val Marie.

—**pulverulenta** (Nutt.) Greene Pulverulent Aster. Crichton, Val Marie.

Madia glomerata L. Madia. Cypress Hills, Regina, Tompkins, Val Marie.

Maruta Cotula (L.) DC.—*Anthemis Cotula* L. May-weed. Range.

Megalodonta Beckii (Torr.) Greene—*Bidens Beckii* Torr. Water Marigold. Near Cumberland Lake.

Oligoneuron canescens Rydb. Corymbose Golden-rod. Common on moist prairie.

—**rigidum** (L.) Small—*Solidago rigida* L. Stiff Golden-rod. (Sask.) Very similar to the last species.

Petasites palmatus (Ait.) A. Gray Palmate-leaved Colt's-foot. Common in wooded areas.

—**sagittatus** (Pursh) A. Gray Arrow-leaved Colt's-foot. Common around shallow sloughs in wooded and semi-wooded areas.

—**vitifolius** Greene—*P. trigonophyllus* Greene Vine-leaved Colt's-foot. Kenosee Lake, McKague, Sutherland.

Picradeniopsis oppositifolia (Nutt.) Rydb.—*Bahia oppositifolia* (Nutt.) A. Gray Picradeniopsis. Pambrun (A. C. Budd).

Pyrrocoma integrifolia (Porter) Greene Entire-leaved Pyrrocoma. Patience Lake.

—**lanceolata** (Hook.) Greene Lance-leaved Pyrrocoma. Bracken, Eastend, Saskatoon, Swift Current, Watson.

—**uniflora** (Hook.) Greene One-flowered Pyrrocoma. (Sask.)

Rudbeckia ampla A. Nels. Smooth Cone-flower. (Sask.)

—**hirta** L. Black-eyed Susan. Common in park areas of eastern Saskatchewan.

Saussurea remotiflora (Hook.) Rydb. Saussurea. North of Saskatchewan River to Bear Lake (Macoun).

Senecio aureus L. Golden Ragwort. Range.

—**canus** Hook. Silvery Groundsel. Widespread but not very common.

—**columbianus** Greene Valley Ragwort. Dundurn, Oxbow, Qu'Appelle Valley, Saskatoon.

—**densus** Greene Compact Groundsel. Saskatoon.

—**eremophilus** Richards. Cut-leaved Ragwort. Widespread and fairly common in wooded areas.

—**exaltatus** Nutt. Tall Ragwort. Cypress Hills.

—**integerrimus** Nutt. Entire-leaved Groundsel. Dana, Humboldt, Rush Lake, Saskatoon.

—**lugens** Richards. Slender-stemmed Groundsel. Range.

—**palustris** (L.) Hook. Marsh Ragwort. Rather common at the margins of lakes and sloughs.

—**pauciflorus** Pursh Few-flowered Groundsel. Lake Waskesiu.

—**pauperculus** Michx. Balsam Groundsel. Dundurn, Floral, McKague, Saskatoon.

—**plattensis** Nutt. Prairie Ragwort. Cypress Hills, Pilger, Prince Albert Nat. Park, Saskatoon, Warman.

—**pseudaureus** Rydb. Thin-leaved Ragwort. Emma Lake, McKague.

—**Purshianus** Nutt. Pursh's Ragwort. Common on dry prairie and hills.

—**Scribneri** Rydb. Scribner's Ragwort. Eastend, Ormiston.

—**triangularis** Hook. Brook Ragwort. (Sask.)

—**Tweedyi** Rydb. Tweedy's Groundsel. Cypress Hills, Saskatchewan Landing.

—**vulgaris** L. Common Groundsel. Found occasionally in gardens and waste places.

—**Willingii** Greene Plants formerly assigned to this species have been transferred to *S. plattensis*.

Sideranthus grindelioides (Nutt.) Britt. Toothed Iron-plant. Bracken; Eastend (Wm. Shevkenek); Moose Jaw (Miss Connie Turner); Swift Current.

—**spinulosus** (Pursh) Sweet Spiny Iron-plant. Fairly common on dry prairie and hills.

Solidago canadensis L. Canadian Goldenrod. Rather widely distributed throughout the northern part of the settled area. Also collected at Cadillac and Swift Current.

—**dumetorum** Lunell Prairie Goldenrod. Common on prairie and around bluffs.

—**gilvocanescens** (Rydb.) Smith Silvery Goldenrod. Blucher, Esk, Humboldt, Indian Head, Saskatoon.

—**glaberrima** Martens Smooth Goldenrod. Common on the prairie. Very similar to *S. missouriensis.*

—**hispida** Muhl. Hairy Goldenrod. Algrove, Emma Lake, Prince Albert, Wallwort, Waskesiu Lake. Our collections of this species probably belong to the variety, *lanata* (Hook.) Fern.

—**juncea** Ait. Early Goldenrod. Ontario and westward to the Rocky Mountains (Macoun).

—**lepida** DC. Graceful Goldenrod. Fairly common and widespread.

—**lepida** DC. var. *elongata* (Nutt.) Fern. Long-leaved Goldenrod. Armley; Bjorkdale (John Laycock); Emma Lake, Prince Albert, Prince Albert Nat. Park.

—**lepida** DC. var. *fallax* Fern. Moose Jaw, Prince Albert, Prince Albert Nat. Park.

—**Lunellii** Rydb. Lunell's Goldenrod. Moose Jaw (G. F. Ledingham); Pike Lake, Saskatoon, Sutherland.

—**missouriensis** Nutt. Low Goldenrod. Common on dry prairie. Blooms first of our goldenrods. Very similar to *S. glaberrima.*

—**mollis** Bartl. Velvety Goldenrod. Moose Jaw (G. F. Ledingham); Parkbeg, Pike Lake, Saskatoon, Swift Current.

—**nemoralis** Ait. Dwarf Goldenrod. Range.

—**oreophila** Rydb.—*S. decumbens* Greene var. *oreophila* (Rydb.) Fern. Mountain Goldenrod. Fairly common in semi-wooded areas. The heads of our specimens are not as large as Rydberg describes.

—**pallida** (Porter) Rydb. Slender Showy Goldenrod. (Sask.)

—**pruinosa** Greene Canescent Goldenrod. Fairly common in semi-wooded areas. Very similar to *S. dumetorum.*

—**pulcherrima** A. Nels.—*S. nemoralis* Ait. var. *decemflora* (DC.) Fern. Showy Goldenrod. Humboldt, McKague, Prince Albert, Saskatoon, Sutherland.

—**scopulorum** (A. Gray) A. Nels.—*S. multiradiata* Ait.—*S. multiradiata* Ait. var. *scopulorum* A. Gray Northern Goldenrod. Waskesiu Lake.

—**serotina** Ait. Late Goldenrod. Common in moist soil around bluffs and woods.

Solidago spp. See "Keys to Goldenrods in Canada and Newfoundland," by E. W. Hart. Dom. Dept. of Agric. Public. 565. Revised edition, May, 1938. Mr. Hart determined many duplicate collections for us.

Stenotus acaulis Nutt. Stemless Stenotus. (Sask.)

—**armerioides** Nutt. Narrow-leaved Stenotus. Big Muddy Valley (Wm. Shevkenek); Eastend, Elbow, Estevan; Floral (Miss A. W. Anderson); Lebret.

—**caespitosus** Nutt. Tufted Stenotus. Elbow of South Saskatchewan River and eastern end of Cypress Hills (Macoun).

Tanacetum vulgare L. Tansy. Saskatoon, Smithville, Sutherland, Tisdale. Escaped from gardens.

Tetraneuris simplex A. Nels. Tetraneuris. Reported from Regina by Wm. Shevkenek.

Townsendia sericea Hook.—*T. exscapa* (Richards.) Porter Low Townsendia. Ardath and Biggar (Madelene Christensen); Donavon, Fort Qu'Appelle, Lac Pelletier, Lumsden, Maple Creek, Southey.

Unamia alba (Nutt.) Rydb.—*Aster ptarmicoides* (Nees) T. and G. White Sneezewort. Fairly common on dry saline soil in semi-wooded areas.

—**lutescens** (Lindl.) Rydb.—*Aster lutescens* (Lindl.) T. and G.—*A. ptarmicoides* (Nees) T. and G. var. *lutescens* (Hook.) A. Gray Yellow Sneezewort. (Sask.)

Veronia fasciculata Michx. Western Iron-weed. (Sask.)

CICHORIACEAE. Chicory Family.

Agoseris agrestis Osterh. Pinnate-leaved Agoseris. Bienfait, Cypress Nills, Langham, Saskatoon.
—**glauca** (Nutt.) Greene Smooth Agoseris. Common on moist prairie.
—**parviflora** (Nutt.) Greene Small Agoseris. Bruno, Ituna, Neville, Saskatoon, Swift Current, Waskesiu Lake.
—**pubescens** Rydb. Pubescent Agoseris. Range.
—**scorzoneraefolia** (Schrad.) Greene Long-leaved Agoseris. Common on prairie.
—**turbinata** Rydb. Linear-leaved Agoseris. Swift Current.
Cichorium Intybus L. Chicory. Kinistino. Not established.
Crepis glauca (Nutt.) T. and G. Smooth Hawksbeard. Brock, Floral, Fulda, Pike Lake, Saskatoon, Waskesiu Lake, Watson.
—**glaucella** Rydb. Slender Hawksbeard. Widespread in moist meadows.
—**intermedia** A. Gray Small-flowered Hawksbeard. (Sask.)
—**occidentalis** Nutt. Western Hawksbeard. (Sask.)
—**perplexans** Rydb. Glaucous Hawksbeard. Widespread in moist saline meadows.
—**platyphylla** Greene Broad-leaved Hawksbeard. Cypress Hills.
—**runcinata** (James) T. and G. Scapose Hawksbeard. Cypress Hills, Pike Lake, Saskatoon, Tisdale.
Hieracium albiflorum Hook. White-flowered Hawkweed. Cypress Hills.
—**cynoglossoides** Arv.-Touv. Mountain Hawkweed. Cypress Hills.
—**scabriusculum** Schw. Narrow-leaved Hawkweed. Fairly common in moist meadows.
Hypochaeris radiata L. Cats-ear. Scott. Probably introduced with garden seeds.
Lactuca canadensis L. Tall Yellow Lettuce. Range.
—**ludoviciana** (Nutt.) DC. Western Lettuce. Gainsborough; Regina (Wm. Shevkenek).
—**pulchella** (Pursh) DC. Large-flowered Blue Lettuce. Common as a weed in grain fields as well as on moist prairie.
—**Scariola** L. Lobed Prickly Lettuce. Dilke, Forget; Gravelbourg (J. L. Leclerc); Swift Current.
—**spicata** (Lam.) Hitchc. Tall Blue Lettuce. Big River, Emma Lake, Hudson Bay Jnctn., Madge Lake, Speddington; Waskesiu Lake (J. S. Thompson).
—**virosa** L. Dentate Prickly Lettuce. Vonda.
Lygodesmia juncea (Pursh) D. Don. Skeleton Weed. Common on sandy land.
—**rostrata** A. Gray Annual Skeleton Weed. Sask.
Nabalus albus (L.) Hook. White Lettuce. Battleford, Kamsack, Kenosee, Madge Lake.
—**racemosus** (Michx.) DC. Glaucous White Lettuce. Widespread in semi-wooded areas but not abundant.
Nothocalais cuspidata (Pursh) Greene—*Agoseris cuspidata* (Pursh) D. Dietr. Prairie False Dandelion. Lebret, Lumsden. This plant is not recorded for Saskatchewan in our manuals.
Picris echioides L. Picris. Prince Albert.
Sonchus arvensis L. Perennial Sowthistle. A common and very troublesome weed in low-lying saline soil.
—**asper** (L.) All. Spiny Sowthistle. Meota, Regina, Saskatoon, Tisdale, Yorkton.
—**oleraceus** L. Annual Sowthistle. Rather common, especially in gardens.

—**uliginosus** Bieb.—*S. arvensis* var. *glabrescens* Wimm. Smooth Perennial Sowthistle. This form is usually included with *S. arvensis*. Common.

Taraxacum dumetorum (Greene) Rydb.—*Leontodon dumetorum* Greene Native Dandelion. Redberry Lake, Sutherland.

—**erythrospermum** Andrz.—*T. laevigatum* (Willd.) DC. (Rhodora 35:377. 1933.)—*Leontodon erythrospermum* (Andrz.) Britt. Red-seeded Dandelion. Foam Lake, Rosthern, Saskatoon, Swift Current.

—**officinale** Weber—*T. palustre* var. *vulgare* (Lam.) Fern.—*Leontodon Taraxacum* L. Common Dandelion. Common on lawns and in waste places. Becoming established in the native sod around sloughs in many districts.

Tragopogon dubius Scop. Goat's-beard. This plant has become much more abundant and widely distributed in the province during the past ten years. Specimens collected in this area agree with the description for this species in Rydberg's "Flora of the Rocky Mountains and Adjacent Plains."

—**pratensis** L. Wild Salsify. Range.

Youngia elegans (Hook.) Rydb. Youngia. (Sask.)

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